

NLM's Online Playground: K-12 Health & Science Information Resources for Librarians, Teachers, Staff, Students & Parents

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Agenda

- Introduction and Overview
- Resources
 - MedlinePlus
 - Career
 - Medicine and Health
 - Environmental
 - Genetics
 - Additional

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NLM
NN/LM
What's the difference?



NN/LM



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- » [Bringing Health Information to the Community](#) (BHIC blog)
- » [PNR Rendezvous](#) Join our free monthly webcast series on September 16.
- » [PNR Partners](#) Join our webinar series showcasing the work of our funding recipients November 12.
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Supporting collaboration among regional libraries, information centers, and community-based organizations in the states of [Alaska](#), [Idaho](#), [Montana](#), [Oregon](#), and [Washington](#).

The mission of the NN/LM is to enhance access to biomedical and health information for researchers, health professionals and the public. Located at the University of Washington, the Regional Medical Library for the NN/LM Pacific Northwest Region offers education programs, funding, and consultation to support research, health information services, resource sharing, community partnerships, and outreach in the region.

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Featured NLM Resource

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TOXNET

TOXNET Home > LactMed



LactMed
A TOXNET DATABASE

What is LactMed?

The LactMed® database contains information on drugs and other chemicals to which breastfeeding mothers may be exposed. It includes information on the levels of such substances in breast milk and infant blood, and the possible adverse effects in the nursing infant. Suggested therapeutic alternatives to those drugs are provided, where appropriate. All data are derived from the scientific literature and fully referenced.

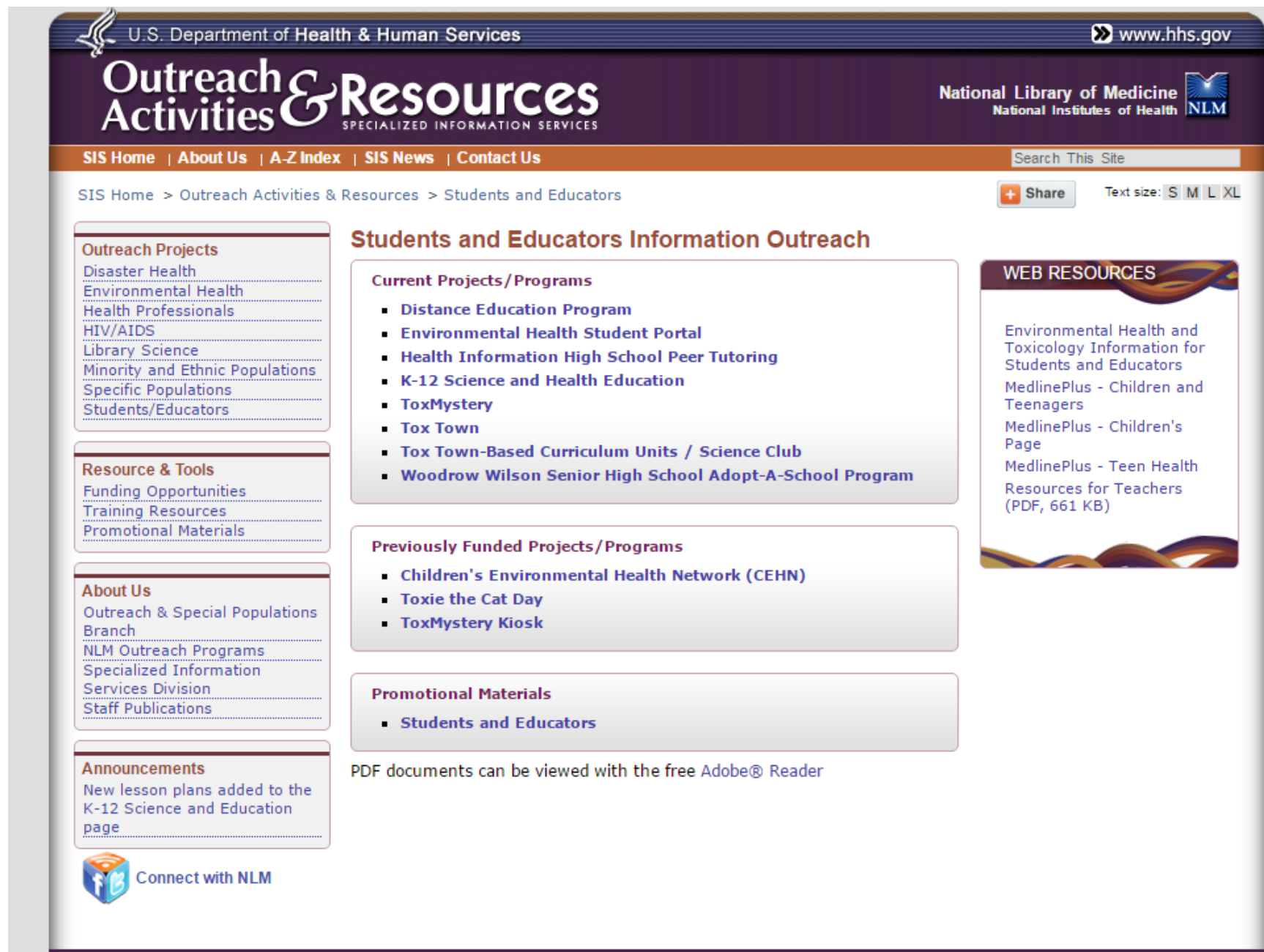
Updates: [LactMed](#) is updated monthly.

Role of School Library and Librarian

“The school library program provides learning opportunities in multiple literacies that enable students to become efficient and effective in the pursuit of information...”

“...As part of the school library program, the school librarian provides leadership in the use of information technologies and instruction for both students and staff in how to use them constructively, ethically, and safely. The school librarian offers expertise in accessing and evaluating information, using information technologies, and collections of quality physical and virtual resources.”

NLM K-12 Science and Health Education Resources



The screenshot shows the NLM Outreach Activities & Resources website. The header includes the U.S. Department of Health & Human Services logo, the website title "Outreach Activities & Resources" with the subtitle "SPECIALIZED INFORMATION SERVICES", and the National Library of Medicine logo. Navigation links include "SIS Home", "About Us", "A-Z Index", "SIS News", and "Contact Us". A search bar and a "Share" button are also present. The main content area is titled "Students and Educators Information Outreach" and is divided into three sections: "Current Projects/Programs", "Previously Funded Projects/Programs", and "Promotional Materials". A sidebar on the left contains links to "Outreach Projects", "Resource & Tools", "About Us", and "Announcements". A "WEB RESOURCES" section on the right lists additional links. At the bottom, there is a "Connect with NLM" button with social media icons.

U.S. Department of Health & Human Services

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Students and Educators Information Outreach

Outreach Projects

- Disaster Health
- Environmental Health
- Health Professionals
- HIV/AIDS
- Library Science
- Minority and Ethnic Populations
- Specific Populations
- Students/Educators

Resource & Tools

- Funding Opportunities
- Training Resources
- Promotional Materials

About Us

- Outreach & Special Populations Branch
- NLM Outreach Programs
- Specialized Information Services Division
- Staff Publications

Announcements

New lesson plans added to the K-12 Science and Education page

Current Projects/Programs

- Distance Education Program
- Environmental Health Student Portal
- Health Information High School Peer Tutoring
- K-12 Science and Health Education
- ToxMystery
- Tox Town
- Tox Town-Based Curriculum Units / Science Club
- Woodrow Wilson Senior High School Adopt-A-School Program

Previously Funded Projects/Programs

- Children's Environmental Health Network (CEHN)
- Toxie the Cat Day
- ToxMystery Kiosk

Promotional Materials

- Students and Educators

PDF documents can be viewed with the free Adobe® Reader

WEB RESOURCES

- Environmental Health and Toxicology Information for Students and Educators
- MedlinePlus - Children and Teenagers
- MedlinePlus - Children's Page
- MedlinePlus - Teen Health Resources for Teachers (PDF, 661 KB)

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Health Resources

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health
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Find information on health, wellness, disorders and conditions

 **Drugs & Supplements**
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 **Medical Encyclopedia**
Articles and images for diseases, symptoms, tests, treatments

Medical Dictionary from Merriam-Webster
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Could your diet use a splash of color?
Our **Nutrition** page has ways to liven it up

1 2 3 4 II

Today's Health News

Could Lots of Time Spent on Social Media Be Tied to Depression?


Healthy Amount of Vitamin C Might Keep Cataracts at Bay

Kids' Fruit Drinks, Juices Contain Day's Worth of Sugar

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Clinical Trials
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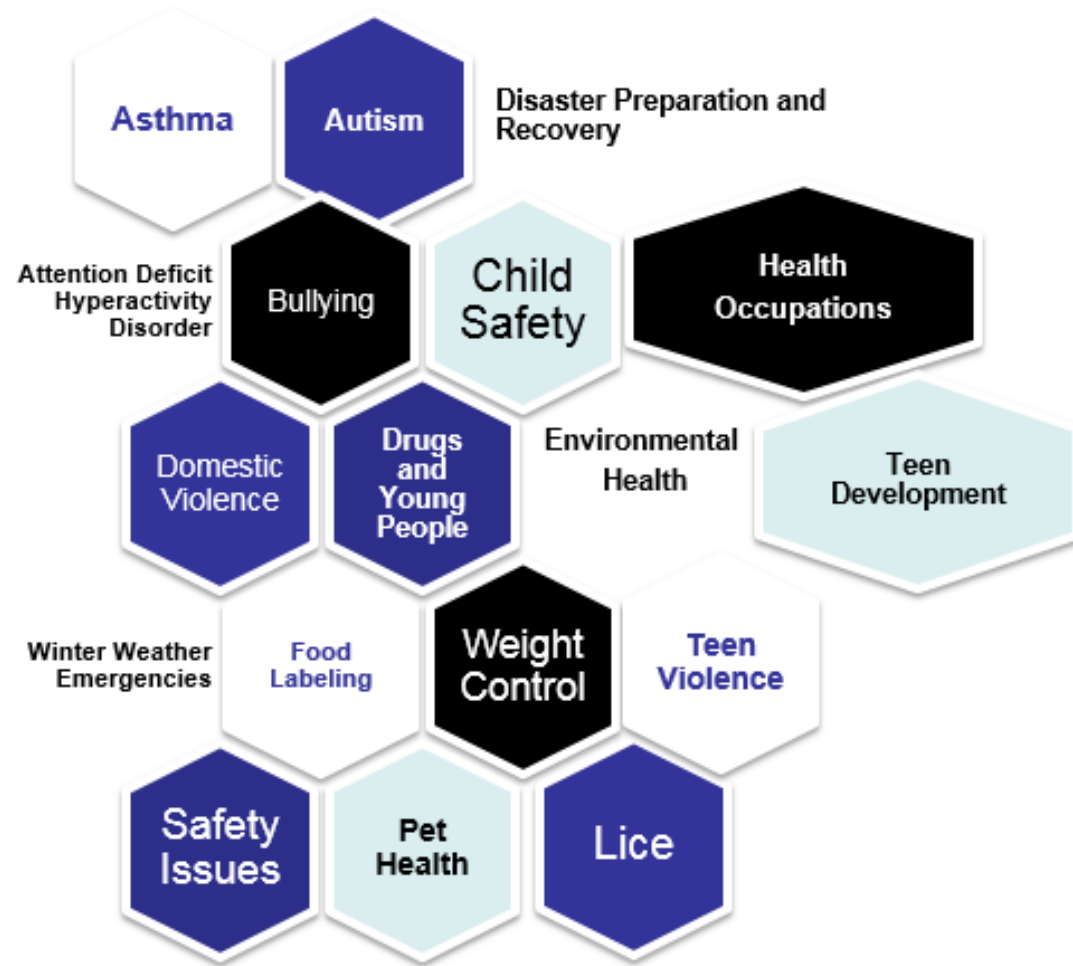
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Today's Health News

Melanoma Strikes Earlier If Indoor Tanning Begins in Teens

New Transplant Technique Might Free Type 1 Diabetics from Daily Injections

Seniors Need to Take Extra Care in The Cold

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Home → Health Topics → Autism Spectrum Disorder

Autism Spectrum Disorder

Also called: ASD, Pervasive developmental disorder

On this page

Basics

Summary

Start Here

Latest News

Symptoms

Diagnosis and Tests

Treatments and Therapies

Learn more

Living with Autism

Related Topics

Specialized Care

Genetics

Research

Statistics and Research

Clinical Trials

Journal Articles

Resources

Find a Specialist

Find a Study

Summary

Autism spectrum disorder (ASD) is a neurodevelopmental disorder that begins in childhood and lasts throughout a person's life. It affects how a person communicates, and learns. It includes what are called developmental disorders.

It is called a "spectrum" disorder because the symptoms vary from person to person. Some people with ASD might have problems talking with others. They may also have restricted interests. Some people have trouble putting things in order, or they may say things that don't make sense to be in their "own world."

At well-child checkups, the health care provider will look for signs of ASD. Your child will have a comprehensive evaluation, including doing various tests and evaluations to make sure there are no other problems.

The causes of ASD are not known. Research is ongoing to learn more about its important roles.

There is currently no one standard treatment for ASD. The goal is to help a person's ability to grow and learn new skills. Starting early with behavior and communication therapies, such as speech therapy, can help.

https://www.nlm.nih.gov/medlineplus/ency/article/002163.htm - Medical Encyclopedia

NIH (National Institute of Neurological Disorders and Stroke) - Short Summary

Available in Spanish

Latest News

More Evidence Preterm Birth Could Raise Autism Risk (01/21/2016, HealthDay)

Study: Extremely Premature Babies At Greater Risk for Autism (12/28/2015, HealthDay)

Scientists Link Brain Chemical to Autism (12/17/2015, HealthDay)

More News on Autism Spectrum Disorder

Symptoms

Signs and Symptoms of Autism (Centers for Disease Control and Prevention)

Diagnosis and Tests

Autism Screening and Diagnosis (Centers for Disease Control and Prevention)

Treatments and Therapies

Autism Spectrum Disorder (ASD): Treatment (Centers for Disease Control and Prevention)

Medication Treatment (NIH) (National Institute of Child Health and Human Development)

Therapies for Children With Autism Spectrum Disorder (Agency for Healthcare Research and Quality) Available in Spanish

What Are the Treatments for Autism Spectrum Disorder (ASD)? (NIH) (National Institute of Child Health and Human Development) Available in Spanish

Living With

Autism Spectrum Disorders (ASD) and Diet (Academy of Nutrition and Dietetics)

Autism through the Lifespan (Autism Society)

Family Issues (Autism Society)

Occupational Therapy's Role with Autism (American Occupational Therapy Association) - PDF

Related Issues

Asperger Syndrome and High Functioning Autism Tool Kit (Autism Speaks) - PDF

Autism Spectrum Disorder (ASD): Related Topics (Centers for Disease Control and Prevention)

Communication Problems in Children with Autism Spectrum Disorder (NIH) (National Institute on Deafness and Other Communication Disorders)

Individualized Education Plans (IEPs) (For Parents) (Nemours Foundation) Available in Spanish

Is There a Connection Between Vaccines and Autism? (Nemours Foundation) Available in Spanish

Why Are Autism Spectrum Disorders Increasing? (Centers for Disease Control and Prevention)

Specifics


Diagnosis, Treatment & Research

Dan Marino Helping Those with Autism Spectrum Disorders

What Are Autism Spectrum Disorders (ASD)?


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Health Topics

Read about symptoms, causes, treatment and prevention. Health topics are regularly reviewed, and links are updated.

Find topics A-Z

A

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Body Location/Systems


Blood, Heart and Circulation


Bones, Joints and Muscles


Brain and Nerves


Digestive System


Ear, Nose and Throat


Endocrine System


Eyes and Vision


Immune System


Kidneys and Urinary System

Lungs and Breathing

Mouth and Teeth

Skin, Hair and Nails

Female Reproductive System

Male Reproductive System

Dis

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Home → Health Topics → Children and Teenagers

Children and Teenagers

Abuse see Child Abuse

Acromegaly see Growth Disorders

ADD see Attention Deficit Hyperactivity Disorder

Adenoidectomy see Tonsils and Adenoids

Adenoids see Tonsils and Adenoids

ADHD see Attention Deficit Hyperactivity Disorder

Adolescent Development see Teen Development

Adolescent Health see Teen Health

Adolescent Pregnancy see Teenage Pregnancy

Adoption

Alcohol and Youth see Underage Drinking

Asperger Syndrome see Autism Spectrum Disorder

Asthma in Children

Attention Deficit Hyperactivity Disorder

Autism see Autism Spectrum Disorder

Autism Spectrum Disorder

Baby Care see Infant and Newborn Care

Baby Health Checkup

Bedwetting

Birth Injuries see Childbirth Problems

Birth Weight


Body Art see Piercing and Tattoos

Bronchitis see Respiratory Syncytial Virus Infections

Bullying

Cancer in Children

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Autism Spectrum Disorder

Also called: ASD, Pervasive developmental disorder (PDD)

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- Symptoms
- Diagnosis and Tests
- Treatments and Therapies

Learn More

- Living With
- Related Issues
- Specifics
- Genetics

See, Play and Learn

- Health Check Tools

Research

- Statistics and Research
- Clinical Trials
- Journal Articles

Resources

- Find an Expert

For You

- Children
- Teenagers
- Patient Handouts

Summary


Autism spectrum disorder (ASD) is a neurological and developmental disorder that begins early in childhood and lasts throughout a person's life. It affects how a person acts and interacts with others, communicates, and learns. It includes what used to be known as Asperger syndrome and pervasive developmental disorders.

It is called a "spectrum" disorder because people with ASD can have a range of symptoms. People with ASD might have problems talking with you, or they might not look you in the eye when you talk to them. They may also have restricted interests and repetitive behaviors. They may spend a lot of time putting things in order, or they may say the same sentence again and again. They may often seem to be in their "own world."

At well-child checkups, the health care provider should check your child's development. If there are signs of ASD, your child will have a comprehensive evaluation. It may include a team of specialists, doing various tests and evaluations to make a diagnosis.

The causes of ASD are not known. Research suggests that both genes and environment play important roles.

There is currently no one standard treatment for ASD. There are many ways to increase your child's ability to grow and learn new skills. Starting them early can lead to better results. Treatments include behavior and communication therapies, skills training, and medicines to control symptoms.



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MEDICAL ENCYCLOPEDIA

Asperger syndrome

Autism

Childhood disintegrative disorder

Related Health Topics

Child Behavior Disorders

Child Development

Fragile X Syndrome

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Children's Health

On this page


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Research <ul style="list-style-type: none">Statistics and ResearchClinical TrialsJournal Articles	Resources <ul style="list-style-type: none">Reference DeskFind an ExpertFinance and Policy	For You <ul style="list-style-type: none">Patient Handouts


Summary

Your child's health includes physical, mental and social well-being. Most parents know the basics of

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Teen Health

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Teen Health

Also called: Adolescent health

On this page


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Research <ul style="list-style-type: none">Statistics and ResearchClinical TrialsJournal Articles	Resources <ul style="list-style-type: none">Reference DeskFind an Expert	For You <ul style="list-style-type: none">No links available


Summary

As a teenager, you go through many changes. Your body is on its way to becoming its adult size. You may notice that you can't fit into your old shoes or that your jeans are now 3 inches too short. Along with these changes, you are probably becoming more independent and making more of your own

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Research <ul style="list-style-type: none">No links available	Resources <ul style="list-style-type: none">Reference DeskFind an Expert	For You <ul style="list-style-type: none">No links available

Summary

Kids, this page is for you. Learn about everything from how the body works to what happens when you go to the hospital. There are quizzes, games and lots of cool web sites for you to explore. Have fun!

Start Here

- BAM! Body and Mind (Centers for Disease Control and Prevention)
- FDA Kids' Home Page (Food and Drug Administration)

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- Summary
- Start Here
- Prevention/Screening

Learn More

- Related Issues
- Specific Conditions

See, Play and Learn

- Images
- Tutorials
- Games

Research

- Clinical Trials

Resources

- Find an Expert

For You

- No links available

Summary

If you are a teenager, this page is for you!

It includes materials specifically for you - not for your parents - about health and safety for teens. There are quizzes, games and lots of cool web sites for you to explore. Have fun!

Start Here

- Ages and Stages: Teen (American Academy of Pediatrics)
- Take Charge of Your Health: A Guide for Teenagers
- Easy-to-Read (National Institute of Diabetes and Digestive and Kidney Diseases)

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Research <ul style="list-style-type: none">Clinical Trials	Resources <ul style="list-style-type: none">Find an Expert	For You <ul style="list-style-type: none">No links available

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Related Health Topics

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- ☐ Drugs and Supplements (96)
- ☐ Medical Encyclopedia (5)
- ☐ Videos and Tutorials
- ☐ News
- ☐ MedlinePlus Magazine (2)
- ☐ Other Resources
- ☐ Multiple Languages

Results 1 - 10 of 145 for **sertraline**

1. Sertraline

Sertraline is used to treat depression, ... thoughts that won't go away and ... incl breast tenderness. **Sertraline** is in a cl <https://www.nlm.nih.gov/medlineplus/dr> Supplements

2. Sertraline (Zoloft) and Pregnancy Specialists) - PDF

Sertraline (Zoloft®) and Pregnancy In ... 5% chance of ... risk. This sheet talks a increase the risk for birth defects over mothertobaby.org/fact-sheets/sertraline

3. List of Confused Drug Names (Inst ... PREXA Cele BREX Cerebyx Cele BF MAZINE chlordiaze POXIDE chlorpro P SERO quel XR **sertraline sertraline** Se ... www.ismp.org/Tools/confuseddrugnam

4. Treating Depression: Should You Union of U.S.) - PDF

... are available as generics. Bupropion Drugs to Treat Depression Consumer F mg Generic One \$21 **Sertraline** tablet : www.consumerreports.org/.../2pager_A

5. Grapefruit

... juice might decrease how fast the bo juice while taking **sertraline** might incre <https://www.nlm.nih.gov/medlineplus/dr> Supplements

6. Index to Drug-Specific Information

... Sensipar (cinacalcet) Serevent Disku **Sertraline** Serzone (nefazodone) Sibut



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Español

Home → Drugs, Herbs and Supplements → Sertraline

Sertraline

pronounced as (ser' tra leen)



Why is this medication prescribed?

How should this medicine be used?

Other uses for this medicine

What special precautions should I follow?

What special dietary instructions should I follow?

What should I do if I forget a dose?

What side effects can this medication cause?

What should I know about storage and disposal of this medication?

In case of emergency/overdose

What other information should I know?

Brand names

IMPORTANT WARNING:

A small number of children, teenagers, and young adults (up to 24 years of age) who took antidepressants ('mood elevators') such as sertraline during clinical studies became suicidal (thinking about harming or killing oneself or planning or trying to do so). Children, teenagers, and young adults who take antidepressants to treat depression or other mental illnesses may be more likely to become suicidal than children, teenagers, and young adults who do not take antidepressants to treat these conditions. However, experts are not sure about how great this risk is and how much it should be considered in deciding whether a child or teenager should take an antidepressant.

You should know that your mental health may change in unexpected ways when you take sertraline or other antidepressants even if you are an adult over 24 years of age. You may become suicidal, especially at the beginning of your treatment and any time that your dose is increased or decreased. You, your family, or your caregiver should call your doctor right away if you experience any of the following symptoms: new or worsening depression; thinking about harming or killing yourself, or planning or trying to do so; extreme worry; agitation; panic attacks; difficulty falling asleep or staying asleep; aggressive behavior; irritability; acting without thinking; severe restlessness; and frenzied abnormal excitement. Be sure that your family or caregiver knows which symptoms may be serious so they can call the doctor if you are unable to seek treatment on your own.

Your healthcare provider will want to see you often while you are taking sertraline, especially at the beginning of your treatment. Be sure to keep all appointments for office visits with your doctor.

The doctor or pharmacist will give you the manufacturer's patient information sheet (Medication Guide) when you begin treatment with sertraline. Read the information carefully and ask your doctor or pharmacist if you have any questions. You also can obtain the Medication Guide from the FDA website: <http://www.fda.gov/Drugs/DrugSafety/InformationbyDrugClass/UCM096273>.

No matter what your age, before you take an antidepressant, you, your parent, or your caregiver should talk to your doctor about the risks and benefits of treating your condition with an antidepressant or with other treatments. You should also talk about the risks and benefits of not treating your condition. You should know that having depression or another mental illness greatly increases the risk that you will become suicidal. This risk is higher if you or anyone in your family has or has ever had bipolar disorder (mood that changes from depressed to



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T

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Thiamine (Vitamin B1) (Natural Medicines Comprehensive Database)

Thunder God Vine (NIH) (National Center for Complementary and Integrative Health)

Turmeric (NIH) (National Center for Complementary and Integrative Health)

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Valerian (NIH) (National Center for Complementary and Integrative Health)

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Office of Dietary Supplements

Strengthening Knowledge and Understanding of Dietary Supplements

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- > How To Evaluate Health Information on the Internet: Questions and Answers
- > FDA: Consumer Updates on Dietary Supplements
- > FDA: Tips for Older Supplement Users
- > DOD: Human Performance Resource Center: Dietary Supplements

Consumer Protection

- > FDA: Consumer Updates on Dietary Supplements
- > FDA: Safety Alerts & Advisories
- > FDA: How to Spot Health Fraud
- > FTC: Dietary Supplements
- > FTC: Weight Loss & Fitness

Nutrient

Vitamin D

Fact Sheet for Consumers

What is vitamin D and what does it do?

Vitamin D is a nutrient found in some foods that is needed for health and to maintain strong bones. It does so by helping the body absorb calcium (one of bone's main building blocks) from food and supplements. People who get too little vitamin D may develop soft, thin, and brittle bones, a condition known as rickets in children and osteomalacia in adults.

Vitamin D is important to the body in many other ways as well. Muscles need it to move, for example, nerves need it to carry messages between the brain and every body part, and the immune system needs vitamin D to fight off invading bacteria and viruses. Together with calcium, vitamin D also helps protect older adults from osteoporosis. Vitamin D is found in cells throughout the body.

Additional Resources

- [Health Professional](#)
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Home → Videos & Tools → Videos of Surgical Procedures

Videos of Surgical Procedures

This page provides links to prerecorded webcasts of surgical procedures. These are actual operations performed at medical centers in the United States. Please note that you cannot send in questions by email, though the webcast may say that you can, because you are not seeing these videos live.

The videos are in Flash format. You will need Flash Player to view the programs. You can download Flash Player for free at www.adobe.com/products/flashplayer.

The videos open in a second window. If you have a pop-up blocker, you will need to disable it to view the programs.

Blood, Heart and Circulation

Angioplasty

- Coronary Angioplasty Stent Placement (Shawnee Mission Medical Center, Merriam, KS, 2/19/2009)
- Transradial Approach for Cardiac Catheterization: The New Frontier of Coronary Intervention (University of Chicago Medical Center, Chicago, IL, 6/26/2014)

Aortic Aneurysm

- Abdominal Aortic Dissection and Aneurysms (New York-Presbyterian Hospital, New York, NY, 6/24/2009)
- Aortic Aneurysm Repair (Baptist Hospital, Miami, FL, 5/07/2009)
- Hybrid Arch Debranching (University of Maryland Medical Center, Baltimore, MD, 2/16/2012)
- Innovations in Minimally Invasive and Conventional Therapy for Aortic Dissection and Aneurysms (New York-Presbyterian Hospital, New York, NY, 6/24/2009)
- Repair Options for Abdominal Aortic Aneurysms (Shawnee Mission Medical Center, Merriam, KS, 7/30/2009)
- Silent Killer -- Aortic Aneurysms -- Resolved Without Open Surgery (Pinnacle Health, Harrisburg, PA, 5/18/2009)
- Transesophageal Echocardiogram (TEE) (Shawnee Mission Medical Center, Merriam, KS, 2/17/2009)

Arrhythmia

- Insertable Cardiac Monitor (Scripps Clinic, La Jolla, CA, 6/16/2014)


Atrial Fibrillation


- Advanced Treatment for Chronic Atrial Fibrillation (Montefiore Einstein Heart Center, New York, NY, 4/01/2009)
- Insertable Cardiac Monitor (Scripps Clinic, La Jolla, CA, 6/16/2014)
- Paracardioscopic Ex-Maze (FirstHealth Moore Regional Hospital, Pinehurst, NC, 07/09/2008)
- Total Thoracoscopic Maze (Pinnacle Health, Harrisburg, PA, 7/21/2010)

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Information for Librarians and Trainers

The goal of MedlinePlus is to bring appropriate, authoritative health information to those who need it. We appreciate your efforts in training people on how to use MedlinePlus. Here are some training resources which might help you with your classes and health fairs.

Resources for Teaching MedlinePlus

MedlinePlus Tour

- [MedlinePlus Tour in English and Spanish](#) - A narrated tour of the main features of MedlinePlus. The video runs about 2.5 minutes.

MedlinePlus Brochures

- [MedlinePlus PDF Brochure](#) - in [English](#) (updated May 2015) and [Spanish](#) (updated May 2015)
- [MedlinePlus PDF Brochure in Creole](#) (updated October 2010)
- [MedlinePlus for Health Professionals PDF Brochure](#) (updated July 2015)
- [MedlinePlus Connect PDF Brochure](#) (updated June 2014)
- [MedlinePlus XML Data Sources PDF Brochure](#) (updated December 2013)

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- [MedlinePlus FAQs](#)
- [MedlinePlus Quality Guidelines](#)
- [MedlinePlus Search Tips](#)

Resources for Teaching How to Find Health Information Online

General

- [Evaluating Internet Health Information: A Tutorial from the National Library of Medicine](#) (download)
- [Finding Accurate and Reliable Health Information on the Internet](#) - PDF (University of Minnesota Health Sciences Libraries)
- [Finding Quality Health Information on the Web: A Tool Kit](#) (University of Washington Center for Public Health Nutrition)
- [MedlinePlus Guide to Healthy Web Surfing](#)
- [MedlinePlus Page: Evaluating Health Information](#)
- [MedlinePlus Page: Understanding Medical Research](#)

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[FAQ: Find a Doctor or Information About a Doctor](#)


Resources for individuals trying to find a doctor or information about a doctor.

Drugs & Supplements




[DailyMed](#)

A directory of Food and Drug Administration (FDA) drug labels.




[Dietary Supplements Labels Database](#)

A database with label information for thousands of brand-name dietary supplements.




[Drug Information Portal](#)

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The latest federally approved HIV/AIDS medical practice guidelines, HIV treatment and prevention clinical trials, and other research information.





Type: Application
Device: Android, Apple, Java

AIDSinfo HIV/AIDS Glossary


The AIDSinfo Drug App provides access to more than 100 HIV-related approved and investigational drugs, in English and Spanish, for healthcare providers and consumers.

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Trends

- #KanyeAnalPlaylist
- #FridayFeeling
- Nemanja Vidic
- #FlashbackFriday
- #ChallengeAcceptedOnCC
- #ETGBS
- Murray
- Jacques Rivette
- Game 7

NLM K-12 Twitter



The image shows the Twitter profile page for NLM K12 Sci Edu (@NLM_K12). The header features a blurred background of colorful glassware. The profile picture shows students in a classroom. The bio states: "Health and science education resources for teachers. From the National Library of Medicine. RT are not endorsements. NLM Privacy Policy: 1.usa.gov/yyhu2Q". It also lists the location as "National Library of Medicine" and the website "sis.nlm.nih.gov/outreach/k12.h...". The page shows 1,415 tweets, 149 following, 141 followers, and 67 likes. A "Follow" button is present. The main feed displays several tweets from Jan 22 to Jan 28, 2023, each with a small image of a classroom and text about science education resources. On the right, there are sections for "New to Twitter?", "You may also like" (listing accounts like @nnlmpnr, @nnlmOERC, @siobhanmaire, @NLM_OSP, and @NLM_SIS), and "Trends" (listing hashtags like #KanyeAnalPlaylist, #FridayFeeling, #FlashbackFriday, #NemanjaVidic, #MakeASentenceFromSongs, #ChallengeAcceptedOnCC, #HymnForTheWeekend, #Murray, and #JacquesRivette).

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📍 National Library of Medicine
🌐 sis.nlm.nih.gov/outreach/k12.h...
📅 Joined September 2010

📷 14 Photos and videos

Tweets Tweets & replies Photos & videos

NLM K12 Sci Edu @NLM_K12 · Jan 28
Attn Teachers! A witty animation to engage students about the topic Mercury. #mercury #science go.usa.gov/cEbDA

NLM K12 Sci Edu @NLM_K12 · Jan 23
K12 teachers here is an animation that explains #lead exposure "Silent but Deadly": go.usa.gov/cUmMQ #Flint

NLM K12 Sci Edu @NLM_K12 · Jan 23
Want to make science relatable to students? This lesson plan on bottle water vs tap water in schools can help! go.usa.gov/3xQ9Q

NLM K12 Sci Edu @NLM_K12 · Jan 22
Teaching about runoff, impervious surfaces and smart development? Here's a lesson plan on it go.usa.gov/3xQ83

NLM K12 Sci Edu @NLM_K12 · Jan 22
Keep your students safe! Share this information on carbon monoxide. go.usa.gov/cPY4d #carbonmonoxide #snow

NLM K12 Sci Edu @NLM_K12 · Jan 22
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School Health

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Summary

Your child spends more time at school than anywhere else except home. Schools can have a major effect on children's health. Schools can teach children about health, and promote healthy behaviors. Physical education classes give children a chance to get exercise.

Schools work to

- Prevent risky behaviors such as [alcohol](#) and [tobacco](#) use, or [bullying](#)
- Encourage healthy habits like exercise and healthy eating
- Deal with specific health problems in students, such as [asthma](#), [obesity](#) and infectious diseases

The school building and environment should be a safe and healthy place for your child.

Start Here

- [Safe Youth. Safe Schools.](#) (Centers for Disease Control and Prevention)
- [Student Health and Academic Achievement](#) (Centers for Disease Control and Prevention)

Latest News

- [Schools Must Do More to Combat Obesity Among Hispanic Kids: Report](#) (01/26/2016, HealthDay)
- ['Standing Desks' in Classrooms May Kickstart Kids' Activity](#) (01/22/2016, HealthDay)
- [Schools Offering Drinking Water May Have Slightly Slimmer Students](#) (01/19/2016, HealthDay)
- [More News on School Health](#)

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Childhood Immunization

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Summary

Today, children in the United States routinely get vaccines that protect them from more than a dozen diseases such as measles, polio, tetanus, diphtheria, and pertussis (whooping cough). Most of these diseases are now at their lowest levels in history, thanks to years of immunization. Children must get at least some vaccines before they may attend school.

Vaccines help make you immune to serious diseases without getting sick first. Without a vaccine, you must actually get a disease in order to become immune to the germ that causes it. Vaccines work best when they are given at certain ages. For example, children don't receive measles vaccine until they are at least one year old. If it is given earlier it might not work as well. The Centers for Disease Control and Prevention publishes a schedule for childhood vaccines.

Although some of the vaccines you receive as a child provide protection for many years, adults need immunizations too.

Centers for Disease Control and Prevention

Start Here

- Childhood Vaccines: What They Are and Why Your Child Needs Them (American Academy of Family Physicians)
Available in Spanish
- For Parents: Vaccines for Your Children (Centers for Disease Control and Prevention)
- Frequently Asked Questions about Immunizations (Nemours Foundation)
Available in Spanish



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[kidshealth.org/.../school_foodallergy.html](#) - External Health Links
- [Food Allergies in Schools](#) (Centers for Disease Control and Prevention)
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- [School Guidelines for Managing Students with Food Allergies](#) (Food Allergy Research & Education) - PDF
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SCHOOL GUIDELINES FOR MANAGING STUDENTS WITH FOOD ALLERGIES

Food allergies can be life threatening. The risk of accidental exposure to foods can be reduced in the school setting if schools work with students, parents, and physicians to minimize risks and provide a safe educational environment for food-allergic students.

Family's Responsibility

- Notify the school of the child's allergies.
- Work with the school team to develop a plan that accommodates the child's needs throughout the school including in the classroom, in the cafeteria, in after-care programs, during school-sponsored activities, and on the school bus, as well as a Food Allergy Action Plan.
- Provide written medical documentation, instructions, and medications as directed by a physician, using the Food Allergy Action Plan as a guide. Include a photo of the child on written form.
- Provide properly labeled medications and replace medications after use or upon expiration.
- Educate the child in the self-management of their food allergy including:
 - safe and unsafe foods
 - strategies for avoiding exposure to unsafe foods
 - symptoms of allergic reactions
 - how and when to tell an adult they may be having an allergy-related problem
 - how to read food labels (age appropriate)
- Review policies/procedures with the school staff, the child's physician, and the child (if age appropriate) after a reaction has occurred.
- Provide emergency contact information.


School's Responsibility

- Be knowledgeable about and follow applicable federal laws including ADA, IDEA, Section 504, and FERPA and any state laws or district policies that apply.
- Review the health records submitted by parents and physicians.
- Include food-allergic students in school activities. Students should not be excluded from school activities solely based on their food allergy.
- Identify a core team of, but not limited to, school nurse, teacher, principal, school food service and nutrition manager/director, and counselor (if available) to work with parents and the student (age appropriate) to establish a prevention plan. Changes to the prevention plan to promote food allergy management should be made with core team participation.

Using This Information

Athletic Injuries

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Head Injuries

Also called: Cranial injuries, Skull fractures, Skull injuries

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Summary

Chances are you've bumped your head before. Usually, the injury is minor because your skull is hard and it protects your brain. But other head injuries can be more severe, such as a skull fracture, concussion, or traumatic brain injury.


Head injuries can be open or closed. A closed injury does not break through the skull. With an open, or penetrating, injury, an object pierces the skull and enters brain tissue. Closed injuries are not always less severe than open injuries.

Some common causes of head injuries are falls, motor vehicle accidents, violence, and sports injuries.

It is important to know the warning signs of a moderate or severe head injury. Get help immediately if the injured person has

- A headache that gets worse or does not go away
- Repeated vomiting or nausea
- Convulsions or seizures
- An inability to wake up
- Dilation of one or both pupils of the eyes
- Slurred speech
- Weakness or numbness in the arms or legs
- Loss of coordination
- Increased confusion, restlessness, or agitation

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Sports Injuries

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[Medial epicondylitis - golfer's elbow](#)
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[Returning to sports after a back injury](#)

Summary

Exercising is good for you, but sometimes you can injure yourself when you play sports or exercise. Accidents, poor training practices, or improper gear can cause them. Some people get hurt because they are not in shape. Not warming up or stretching enough can also lead to injuries.

The most common sports injuries are

- Sprains and strains
- Knee injuries
- Swollen muscles
- Achilles tendon injuries
- Pain along the shin bone
- Rotator cuff injuries
- Fractures
- Dislocations

If you get hurt, stop playing. Continuing to play or exercise can cause more harm. Treatment often begins with the RICE (Rest, Ice, Compression, and Elevation) method to relieve pain, reduce swelling, and speed healing. Other possible treatments include pain relievers, keeping the injured area from moving, rehabilitation, and sometimes surgery.

NIH: National Institute of Arthritis and Musculoskeletal and Skin Diseases

Start Here

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Internet Safety

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Internet Safety

Summary

For most kids and teens, technology is an important part of their lives. They browse the Web for information, use social networking sites, text, and chat. But there can also be dangers, and it is important for parents to monitor their children's use and teach them how to be safe online:

- Never give out personal information, such as your full name, address, phone number, or school name
- Tell an adult if any communication (chat, text, e-mail message) makes you feel threatened or uncomfortable
- Never send sexually explicit photographs or messages
- On social networking sites, use privacy controls and only friend people that you know

Of course, some of this advice is good for adults, too.

Latest News

- Kids Find Help for Anorexia More Often Than 'Pro-Ana' Posts on YouTube (12/16/2015, HealthDay)

Resources

- Chat, E-Mail, Web, and Chat Room Slang and Acronyms (American Academy of Pediatrics)
- Cyberbullying (Health Resources and Services Administration)
- Cyberbullying (National Crime Prevention Council)
- Friend Finder (Federal Trade Commission)
- Net Cetera: Chatting with Kids about Being Online (Federal Trade Commission) - PDF
- Parent's Guide to Internet Safety (Federal Bureau of Investigation)
- Sexting: What Parents Need to Know (Nemours Foundation)
- Talking to Kids and Teens About Social Media and Sexting (American Academy of Pediatrics)
- Teaching Kids to Be Smart About Social Media (Nemours Foundation)
- Understanding Mobile Apps (Federal Trade Commission)

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Blog

Report identity theft and get a personal recovery plan at IdentityTheft.gov

January 28, 2016
by Nicole Fleming
Consumer Education Specialist, FTC

Millions of people are affected by identity theft each year. It might start with a mysterious credit card charge, a bill you don't recognize, or a letter from the IRS that says you already got your refund — even though you didn't.

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Bullying

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Summary

Bullying is when a person or group repeatedly tries to harm someone who is weaker or who they think is weaker. Sometimes it involves direct attacks such as hitting, name calling, teasing or taunting. Sometimes it is indirect, such as spreading rumors or trying to make others reject someone.

Often people dismiss bullying among kids as a normal part of growing up. But bullying is harmful. It can lead children and teenagers to feel tense and afraid. It may lead them to avoid school. In severe cases, teens who are bullied may feel they need to take drastic measures or react violently. Others even consider suicide. For some, the effects of bullying last a lifetime.

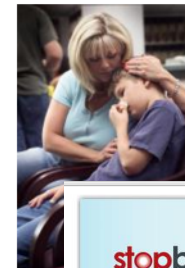
Centers for Disease Control and Prevention

Start Here

- [Bullying](#) (National Institute of Child Health and Human Development)
- [Bullying: It's Not OK](#) (American Academy of Pediatrics)
- [Dealing with Bullies](#) (Nemours Foundation)
Available in [Spanish](#)
- [Helping Kids Deal with Bullies](#) (Nemours Foundation)
Available in [Spanish](#)
- [What Is Bullying?](#) (Health Resources and Services Administration)

Latest News

MedlinePlus information from the National Institutes of Health and the U.S. Department of Health and Human Services. For more information, visit [MedlinePlus.gov](#) or [NIH.gov](#).



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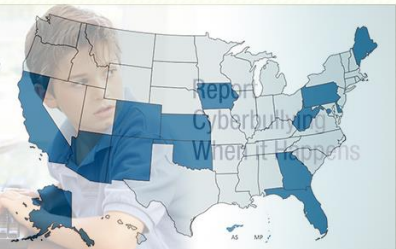
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WHAT YOU CAN DO



Parents



Educators



Community



Teens



Kids

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Child Nutrition

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Summary

A healthy diet helps children grow and learn. It also helps prevent obesity and chronic diseases, such as diabetes. To give your child a nutritious diet

- Make half of what is on your child's plate fruits and vegetables
- Choose healthy sources of protein, such as lean meat, nuts, and soy
- Serve whole-grain breads and cereals because they are high in fiber
- Broil, grill, or steam foods instead of frying them
- Limit fast food and junk food
- Offer water or milk instead of sugary fruit drinks and sodas

Learn about your children's nutrient requirements. Some of them, such as iron, calcium, and potassium, change as your child ages.

NIH: National Institute of Diabetes and Digestive and Kidney Diseases

Start Here

- [Health and Nutrition Information for Preschoolers](#) (Department of Agriculture)
- [Healthy Eating](#) (Nemours Foundation)
Available in Spanish
- [Helping Your Child: Tips for Parents](#) (National Institute of Diabetes and Digestive and Kidney Diseases)



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STUDENTS

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Preschoolers (2-5 yrs)

Parents and caregivers of children 2-5 years old can explore ways to help preschoolers grow up healthy, play actively every day, develop healthy eating habits, try new foods, and more.

Kids (6-11 yrs)


Offering science-based advice, MyPlate Kids' Place can help kids build healthy meals and to maintain or achieve a healthy weight. Parents and teachers are invited to use the [MyPlate Kids' Place Resources for Parents and Educators](#) for "teachable moments" that will influence children's choices at home and at school. More materials for kids and parents with kids can be found on the [Team Nutrition website](#).

High School Students

The [SuperTracker Nutrition Lesson Plans for High School Students](#) is a series of lesson plans designed to help high school students learn how to build a healthy diet using SuperTracker. Each lesson plan includes learning objectives, detailed instructions, and accompanying resources and handouts.

Using This Information

Teen Mental Health



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Teen Mental Health



Being a teenager is hard. You're under stress to be liked, do well in school, get along with your family, and make big decisions. You can't avoid most of these pressures and worrying about them is normal. But feeling very sad, hopeless or worthless are warning signs of a mental health problem.

Mental health problems are real, painful, and sometimes severe. You might help if you have the signs mentioned above, or if you

- Often feel very angry or very worried
- Feel grief for a long time after a loss or death
- Think your mind is controlled or out of control
- Use [alcohol or drugs](#)
- Exercise, [diet and/or binge-eat obsessively](#)
- Hurt other people or destroy property
- Do reckless things that could harm you or others

Mental health problems can be treated. To find help, talk to your parents, school counselor, or health care provider.

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- [Understanding Your Teen's Emotional Health](#) (American Academy of Family Physicians)
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Overviews

- [Child and Adolescent Mental Health](#)  (National Institute of Mental Health)
- [Mental Health Conditions](#) (Department of Health and Human Services, Office on Women's Health)
- [Teens and Mental Health](#) (American Psychiatric Association)



Latest News

- [Teen Suicides by Hanging on The Rise Across U.S.](#) (03/05/2015, HealthDay)
- [Helping Student-Athletes with Mental Health Issues](#) (03/03/2015, HealthDay)
- [U.S.-Born Latino Teens Feel the Stress of Discrimination More](#) (02/13/2015, HealthDay)
- [More News on Teen Mental Health](#)


Diagnosis/Symptoms

- [Comprehensive Psychiatric Evaluation](#) (American Academy of Child and Adolescent Psychiatry)
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- [Mental Health and Teens: Watch for Danger Signs](#) (American Academy of Pediatrics)

Treatment


- [11 Questions to Ask Before Psychiatric Hospitalization of Your Child or Adolescent](#) (American Academy of Child and Adolescent Psychiatry)
Also available in [Spanish](#)
- [Antidepressant Medications for Children and Adolescents: Information for Parents and Caregivers](#)  (National Institute of Mental Health)
- [Antidepressants for Children and Teens](#) (Mayo Foundation for Medical Education and Research)
- [Antipsychotic Medicines for Children and Teens: A Review of the Research for Parents and Caregivers](#) (Agency for Healthcare Research and Quality)
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- [Continuum of Care for Children and Adolescents](#) (American Academy of Child and Adolescent Psychiatry)
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- [Getting Therapy](#) (Department of Health and Human Services, Office on Women's Health)
- [Going to a Therapist](#) (Nemours Foundation)
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- [Dealing with a Health Condition](#) (Nemours Foundation)
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- [Emotional Health \(For Young Men\)](#) (Children's Hospital Boston)
- [Helping Children and Adolescents Cope with Violence and Disasters: What Parents Can Do](#)  (National Institute of Mental Health)
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- [Your Feelings](#) (Department of Health and Human Services, Office on Women's Health)
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Related Issues

- [BAMI Guide to Getting Along](#) (Centers for Disease Control and Prevention)
- [Gay, Lesbian and Bisexual Adolescents](#) (American Academy of Child and Adolescent Psychiatry)
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- [Homesickness](#) (Nemours Foundation)
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- [Know Your Rights: Consent and Confidentiality](#) (American Academy of Child and Adolescent Psychiatry)
- [Partnering with Your Child's School: A Guide for Parents](#) (HSC Foundation) - PDF
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- [Preventing and Managing Medication-Related Weight Gain](#) (American Academy of Child and Adolescent Psychiatry)
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- [Starting College with a Psychiatric Illness](#) (American Academy of Child and Adolescent Psychiatry)
- [Teen Brain: Behavior, Problem Solving, and Decision Making](#) (American Academy of Child and Adolescent Psychiatry)
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- [Teens and Stress: Who Has Time for It?](#) (American Academy of Family Physicians)
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- [Transitioning from High School to College with a Psychiatric Illness: Preparation](#) (American Academy of Child and Adolescent Psychiatry)
- [Why Am I in Such a Bad Mood?](#) (Nemours Foundation)
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- [Finding Low-Cost Mental Health Care](#) (Nemours Foundation)
- [Understanding Your Mental Health Insurance](#) (American Academy of Child and Adolescent Psychiatry)
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- [ClinicalTrials.gov: Teen Mental Health](#)  (National Institutes of Health)
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- [Anxiety Disorders in Children and Adolescents](#)  (National Institute of Mental Health)
- [Bipolar Disorder in Children and Adolescents](#)  (National Institute of Mental Health)

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Disaster Planning

Disaster

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Summary

Preparing for a disaster can help you and your family be a natural disaster prepared. You can learn about basic measures like flood insurance.

No matter what disaster strikes, recovery can take time.

Federal Emergency Management Agency

Start Here

- Are You Ready? (Department of Homeland Security)
- Disaster Preparedness (American Red Cross)

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- Pediatric Disaster Preparedness

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- Clean Up After a Disaster

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PARENTS

Get the whole family involved in preparing!



BE A HERO!

Disasters affect everyone. And so it takes everyone - youth, parents, and community members - to help prepare.

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Piercing and Tattoos

Also called: Body art, Body piercing



Piercings and tattoos are body decorations that go back to ancient times. Body piercing involves making a hole in the skin so that you can insert jewelry. This is often in the earlobe, but can be in other parts of the body. Tattoos are designs on the skin made with needles and colored ink. A permanent tattoo is meant to last forever. Permanent makeup is a type of tattoo.

The health risks of piercings and tattoos include

- Allergic reactions
- Keloids, a type of scar that grows beyond the original wound
- Infections, such as hepatitis B and C

To reduce the risks, make sure the piercer has a good reputation. Proper sterilization of tools is important. Follow instructions on caring for your skin.

Holes from piercing usually close up after a few days. To remove tattoos, but it's painful and expensive.

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- [Body Piercing](#) (American Academy of Dermatology)
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- [Think Before You Ink: Are You Ready for a Tattoo?](#)



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Among High School Seniors, Driving After Marijuana Use Surpasses Drunk Driving

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NIDA Notes

July 10, 2014

By Eric Sarlin, M.Ed., M.A., NIDA Notes Contributing Writer

Nearly 1 in 6 high school seniors who responded to a 2011 survey reported that, within the past 2 weeks, they had driven a motor vehicle after using an illicit drug or drinking heavily. Nearly 1 in 4 said they had recently ridden in a car with such a driver. Altogether 28 percent had put themselves at risk, within that short time frame, by being in a vehicle whose driver had been using marijuana or another illicit drug, or had drunk 5 or more alcoholic drinks. These rates had all risen nearly 20 percent in only 4 years, due almost entirely to an increase in driving after smoking marijuana.

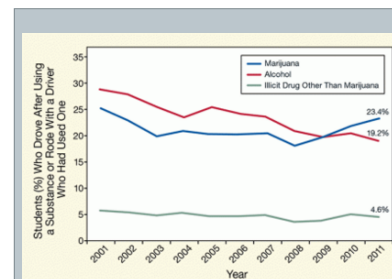
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About E-Cigarettes

E-cigarettes are being marketed as a safe alternative to smoking. But they're not because e-cigarettes are still putting **nicotine** — a highly addictive drug — into the body.

Lea este artículo en Español

Electronic cigarettes are battery-powered smoking devices often designed to look and feel like regular cigarettes. They use cartridges filled with a liquid that contains nicotine, flavorings, and other chemicals. A heating device in the e-cigarette converts the liquid into a vapor, which the person inhales. That's why using e-cigarettes is known as "vaping."

Because e-cigarettes don't burn tobacco, people don't inhale the same amounts of tar and carbon monoxide as with a regular cigarette. But anyone using an e-cigarette still gets an unhealthy dose of nicotine and other chemicals.

Electronic cigarettes started out being marketed to smokers as a way to help them quit. Now that e-cigarettes have gone mainstream, regulators and scientists are taking note. Expect to see more information coming out about e-cigarettes and their health effects.


The Risks


E-cigarettes don't fill the lungs with harmful smoke, but that doesn't make them a healthy alternative to regular cigarettes.

Anyone who uses ("vapes") an e-cigarette is still putting nicotine — which is absorbed through the lungs — into his or her system. Besides being an addictive drug, nicotine is also toxic in high doses. It was once even used as an insecticide.

Careers

Health Careers: MedlinePlus

 U.S. National Library of Medicine



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Home → Health Topics → Health Occupations

Health Occupations

Also called: Health careers, Health professions, Medical occupations, Medical professions

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MEDICAL ENCYCLOPEDIA

Types of health care providers

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Life Works: Explore Health and Medical Science Careers

Mentoring in Medicine Program Encourages Careers in Health

MedlinePlus links to health information from the National

Summary

Every day, around the clock, people who work in the health care industry provide care for millions of people, from newborns to the very ill. In fact, the health care industry is one of largest providers of jobs in the United States. Many health jobs are in hospitals. Others are in nursing homes, doctors' offices, dentists' offices, outpatient clinics and laboratories.

To work in a health occupation, you often must have special training. Some, like doctors, must have more than 4 years of college.

Bureau of Labor Statistics

Start Here


- Occupational Outlook Handbook: Healthcare Occupations (Bureau of Labor Statistics)
Available in Spanish

Latest News


- Small Number of Doctors Trigger Big Share of Malpractice Payouts (01/27/2016, HealthDay)
- More Than a Quarter of New Doctors May Be Depressed (12/08/2015, HealthDay)
- Many U.S. Primary Care Docs Feel Unprepared for Complex Cases (12/07/2015, HealthDay)
- More News on Health Occupations

Related Issues


Enviro-Health Links



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Environmental Health & Toxicology
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Academic Program Directories

Graduate Programs in Toxicology

- Academic and Postdoctoral Programs and Web Sites
Society of Toxicology

Programs in Environmental Science and Environmental Health Sciences

- Association of Environmental Health Academic Programs
- Current Affiliates of the National Council for Science and the Environment
- Environmental Internship Clearinghouse
- National Council for Science and the Environment
- National Environmental Health Science and Protection Accreditation Council (EHAC)

Programs in Medical Toxicology

- Interested in Becoming a Medical Toxicologist?
American College of Medical Toxicology
- Medical Toxicology Education Service
University of Virginia
- Texas Tech University Health Sciences Center Medical Toxicology Fellowship Program
- Training Programs for Medical Toxicology
Compiled by the American College of Medical Toxicology
- Toxikon Medical Toxicology Fellowship Program

Programs in Occupational Medicine and Related Disciplines

- Post-Graduate Training Opportunities in Occupational & Environmental Medicine
Association of Occupational and Environmental Health Clinics
- European Association of Schools of Occupational Medicine (EASOM)

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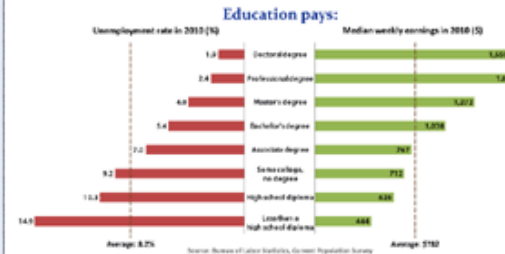
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[Education Required](#)

[Median Salary](#)

Education Makes a Difference

[text version](#)



Source: Bureau of Labor Statistics

College & Career Planning Time-Line

Find out what you should be doing for each year of high school to improve your chances of getting into the college of your choice and make the application process easier.

Check Out a Success Story

Meet a real **Biomedical Engineer**:

[Abby Vogel](#)



[Read Interview](#)

"My career goals are to graduate with a Ph.D. in Biological Resources Engineering and to publish as a first author in a leading professional journal. ... After graduating with a Ph.D., I am undecided about whether to pursue a career in academia as a professor, or in industry as a biomedical engineer."

Activities

Apply knowledge of engineering, biology, and biomechanical principles to the design, development, and evaluation of biological and health systems and products, such as artificial organs, prostheses, instrumentation, medical information systems, and health management and care delivery systems.

Minimum Education Required

Bachelor's Degree

Learn more about [Biomedical Engineer](#)

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Genetics

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Careers in Genetics

The study of genetics and genomics is improving our understanding of the biology of health and disease, and that of our biological world in ways that was never before possible. These advancements have wide applications to biology, health, and society. Opportunity to use training in genetics and genomics exists in a range of fields, including in medicine, academic research, law, journalism, agriculture, commercial industries, and education to name a few.

Becoming a Scientist

Description: Detailed articles, video interviews with various scientists, and additional information resources for students curious about becoming a scientist

Source: Cold Spring Harbor Laboratory | URL: <http://library.cshl.edu/oralhistory/topic/scientific-experience/becoming-scientist/>

Careers in Human Genetics

Description: Information on careers in human genetics

Source: The American Society of Human Genetics | URL: <http://www.ashg.org/education/careers.shtml>

Genetic Counseling

Description: Genetic counselors are health professionals who help people faced with the possibility of a genetic disease to make informed decisions about their futures.

Source: Genome Research Limited and Wellcome Trust Sanger Institute | URL: <http://www.yourgenome.org/stories/genetic-counselling>

GeneticsCareers.org

Description: Explore real genetics career job postings on this site developed by The American Society of Human Genetics and the Genetics Society of America

Source: GeneticsCareers.org | URL: <http://geneticscareers.org>

Genomic Careers - Find Your Future

Description: Video interviews with genomic professionals, information on genomic careers, a tool for rating your favorite genomic careers, and an opportunity to test your knowledge of careers in this field


Source: National Human Genome Research Institute | URL: <http://www.genome.gov/GenomicCareers/index.cfm>

Genomics: Towards a Healthier You

Description: A webcast presenting information on why genetics is important to health, plus information on genetic counseling as a career. The singer and performer T-Boz shares her personal story about living with sickle cell anemia as one example of genetic health issues.

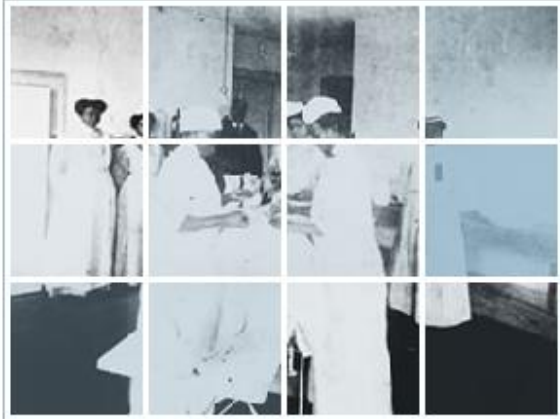
Source: National Human Genome Research Institute | URL: <https://www.youtube.com/watch?v=Q5ZrowNN7MQ>

NLM Traveling Exhibit: Changing the Face of Medicine



CELEBRATING AMERICA'S WOMEN PHYSICIANS

Changing <i>the face</i> of Medicine	HOME	VISIT	PHYSICIANS
	RESOURCES	ACTIVITIES	SHARE <i>your</i> STORY



Discover the many ways that women have influenced and enhanced the practice of medicine. The individuals featured here provide an intriguing glimpse of the broader community of women doctors who are making a difference. The National Library of Medicine is pleased to present this exhibition honoring the lives and accomplishments of these women in the hope of inspiring a new generation of medical pioneers.

* Explore *the* Exhibition

► VISIT
This exhibition at the National Library of Medicine closed on November 19, 2005. Its traveling exhibition [itinerary](#) is available online. Please refer to "On Exhibit at NLM" on the [Library's home page](#) for information on the current exhibition on display at the Library.

► PHYSICIANS
Perform your own customized database [search](#) to learn about the woman physicians featured in this exhibition. Learn about their sources of inspiration, the challenges they faced, and their accomplishments.

► RESOURCES
Students, find out if a [career in medicine](#) is for you through the guide to medical career Web sites. Teachers, print classroom [lesson plans](#) and view an extensive [bibliography](#) including books and videos.

New Book! *Women Physicians and the Cultures of Medicine*.

► ACTIVITIES
Check out these online

► SHARE *your* STORY
[Post your story](#) about a woman

LOCAL LEGENDS

NLM Traveling Exhibit: Native Voices

NATIVE PEOPLES' CONCEPTS OF HEALTH AND ILLNESS



EXHIBITION | INTERVIEWS | TIMELINE | **RESOURCES** | VISIT

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LESSON PLANS & ADDITIONAL RESOURCES

ONLINE ACTIVITIES

SUGGESTED READINGS

HEALTH HEADLINES

High School

American Indian Science and Engineering Society (AISES) Pre-College Programs

<http://www.aises.org/what/programs/precollege>
AISES offers a variety of programs for Native high school students, including annual national and international science and engineering fairs, summer math and science camps, and technology-based initiatives.

ASPIRINGDOCS.ORG® by the Association of American Medical Colleges (AAMC)

<http://www.aspiringdocs.org>
ASPIRINGDOCS.ORG® is supported by AAMC to increase diversity in medicine. The FAQs & Resources section will help high school students consider a career in medicine, as well as help them navigate through the process of getting into and paying for medical school.

Association of American Indian Physicians (AAIP) Patty Iron Cloud National Native American Youth Initiative

<http://aaip.site-ym.com/?page=NNAYI>
This annual program takes place in Washington, D.C. and is designed for American Indian and


Peer Tutor Project

Vital Information for a Virtual Age!

iVIVA!


A PEER TUTOR PROJECT

September 12, 2015



OUR MISSION

Biblioteca Las Américas	To empower high school students and assist them in serving their communities;
medlineplus.gov	
Implementation Guide	To improve the awareness and use of quality health information resources in communities; and
History	To create student-centered programs for community health outreach.
Activities	We offer free support for those starting new peer tutoring programs that seek to partner teachers and high school students and wish to learn from the experiences of others.
Personnel	
South Texas ISD	
Publications	
Awards	



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2003 Texas Library Association Project of the Year

2003 HOSA Student community awareness project

2006 National School Library Media Program of the Year

FUNDED

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Medicine/Health

Anatomy

Home → Health Topics → Blood

Blood

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Research

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- Journal Articles

Summary

Anatomy description

Statistics

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Specialty

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Summary

Your blood is made of water, salts, and blood cells, which are

Red blood cells are made in the bone marrow. They live for about 120 days. If you have a blood infection and a wound, blood cells are constantly dying and being replaced about 6 days

Problems with blood can cause you to lose too much blood

Start Here

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Gas

Also called: Belch, Burp, Eructation, Flatulence, Flatus

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For You

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- Patient Handouts

Summary

Everyone has gas. Most people pass gas 13 to 21 times a day. Passing gas through the mouth is called belching or burping. Passing gas through the anus is called flatulence. Most of the time gas does not have an odor. The odor comes from bacteria in the large intestine that release small amounts of gases that contain sulfur.

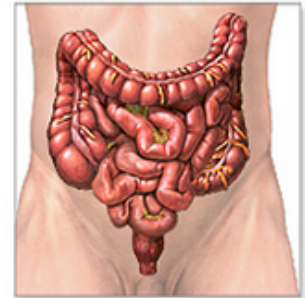
Gas in the digestive tract comes from two sources: air that you swallow and the breakdown of undigested food by bacteria in the large intestine. Certain foods may cause gas. Foods that produce gas in one person may not cause gas in another.

You can reduce the amount of gas you have by

- Drinking lots of water and non-fizzy drinks
- Eating more slowly so you swallow less air when you eat
- Avoiding milk products if you have [lactose intolerance](#)

Medicines can help reduce gas or the pain and bloating caused by gas. If your symptoms still bother you, see your health care provider.

NIH: National Institute of Diabetes and Digestive and Kidney Diseases



ADAM

Get Gas updates by email [i](#)

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MEDICAL ENCYCLOPEDIA

[Abdominal bloating](#)

[Belching](#)

[Bland diet](#)

[Gas - flatulence](#)

Related Health Topics

[Abdominal Pain](#)

KidsHealth: Information on Body

The image shows a side-by-side comparison of the KidsHealth website interface. On the left is the 'KidsHealth' homepage, and on the right is the 'TeensHealth' page. Both pages have a sidebar on the left with a search bar and a list of categories. A red oval highlights the 'Body' category in the sidebar of both pages. The 'TeensHealth' page features a 'Flu Facts' article, a 'Hot Topics' section with a list of topics, an 'Expert Answers on...' section, and a 'Quiz' section. The 'KidsHealth' page has a 'WHAT'S HOT' section and a 'BRA' section.

KidsHealth
from Nemours

Search here...

How the Body Works
Puberty & Growing Up
Staying Healthy
Recipes & Cooking
Staying Safe
Health Problems
Illnesses & Injuries
Health Problems of Grown Ups
People, Places & Things That Help
Feelings
Q&A
Movies & More
Quizzes
Games
Kids' Medical Dictionary
En Español

WHAT'S HOT
DIGESTIVE SYSTEM
Go!

BRA
If you have a sedentary lifestyle and in your school anyone
GET

TeensHealth
from Nemours

Search here...

Body
Mind
Sexual Health
Food & Fitness
Diseases & Conditions
Infections
Q&A
School & Jobs
Drugs & Alcohol
Staying Safe
Recipes
En Español

Flu Facts
featured articles

Hot Topics

- Cold-Weather Sports
- Am I in a Healthy Relationship?
- Be Your Best Self
- Smart Snacking
- Losing Weight Safely

Expert Answers on...
I go to bed on time but sometimes I lie there for a while and can't fall asleep. What should I do?
Find Out More >>


TAKE 5
Tips for Life
5 ways to fight depression and feel better.
Find Out More >>

Quiz
After a person has been infected with mono, how long does it take for symptoms to show up?
A 1 to 2 weeks
B 2 to 4 weeks
C 4 to 6 weeks

Making a Change
Your Personal Plan

KidsHealth Home / Sign up for our weekly newsletter for teens

GirlsHealth



Be Healthy. Be Happy. Be You. Beautiful.

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[Home](#) » [Body](#) » [Understanding your body](#) » Inside your body

Body:

Understanding your body

Inside your body

Your reproductive health

Puberty

Getting your period

Getting enough sleep

Looking and feeling your best

Fighting germs

Your sexuality

What are STDs and STIs?

Seeing the doctor

Quizzes

Links to more information on girls' bodies

girlshealth glossary

girlshealth.gov home

Inside your body

Your body is fantastic! It's a great idea to learn how your body works. That way, you can help protect it from problems and appreciate it when all goes well.

What are the major systems of your body? Check them out here.

{Circulatory} {Musculoskeletal} {Nervous} {Digestive} {Respiratory} {Endocrine} {Reproductive}



How much do you know about your body?

Your body can do some amazing things. It can walk and chew gum at the same time — and clean the air you breathe, heal wounds, digest food, fight germs, and more. If you understand how it works, you can help keep your body from having problems and appreciate it when all goes well.




Click on the system names at the top to uncover the mysteries of many of the body's major systems.



(If the tool above does not appear, please take a look at our [text version of this tool](#).
Viewing the above requires the [Adobe Flash Player](#) &.)

Content last reviewed April 15, 2014
Page last updated May 23, 2014


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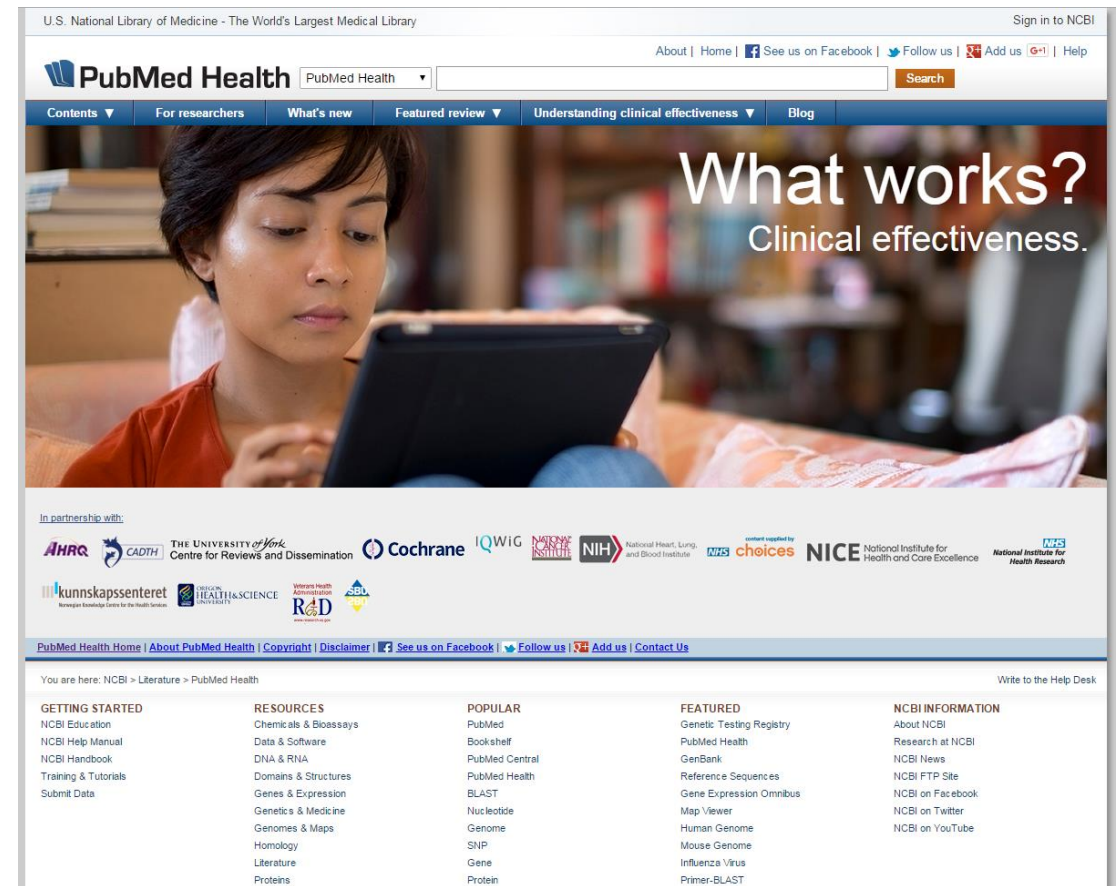
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PubMed Health



PubMed Health focuses on finding answers to the question “What works?” in medical and health care. Includes a section on ‘How to Read Health News’ and Behind the Headlines section (from England's National Health Service).

PubMed Health

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Understanding research results G+1


Studies, numbers and health claims—we're flooded with them every day. Don't be misled or confused. Use the lively and interesting books on this page to make sense of it all.

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PubMed Health Blog...



Swedish health and social care assessment agency SBU joins PubMed Health

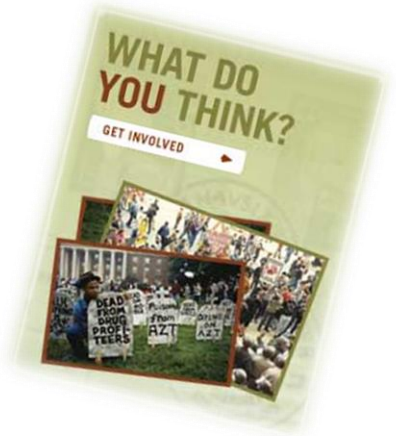
We are delighted to welcome the Swedish Council on Health Technology Assessment (SBU) to PubMed Health.

The... [read all...](#)

NLM Traveling Exhibits

Against the Odds

Against the Odds highlights stories of communities who, in collaboration with scientists, advocates, governments, and international organizations, are taking up the challenge to prevent disease and improve quality of life around the world



Online Exhibition includes:


- Activities & Resources
- Lesson plans and online activities (Grades 3-12)
- 'Get Involved' section where students can view different perspectives and share thoughts on global health issues.



Environmental Health

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Health Topics

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Ozone

Summary

Ozone is a gas. It c
10 to 30 miles abov
ozone layer is gone
may get too much u
immune system pro


"Bad" ozone is at gr
chemically with sunl
bad ozone can be h
and emphysema. It

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Environmental Health

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Summary

Our environment affects our health. If
polluted, it can lead to health problem
the home can trigger asthma attacks.

Some environmental risks are a part o
of human activities, like lead poisonin
industrial use.

NIH: National Institute of Environmen


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<ul style="list-style-type: none">SummaryStart Here	<ul style="list-style-type: none">Related IssuesSpecifics	<ul style="list-style-type: none">Videos and Tutorials
Research	Resources	For You
<ul style="list-style-type: none">Statistics and ResearchJournal Articles	<ul style="list-style-type: none">Find an Expert	<ul style="list-style-type: none">ChildrenPatient Handouts


Summary

Even if you use them properly, many chemicals can still harm human health and the **environment**. When you throw these substances away, they become hazardous waste. Some hazardous wastes come from products in our homes. Our garbage can include such hazardous wastes as old batteries, bug spray cans and paint thinner. U.S. residents generate 1.6 million tons of household hazardous waste per year. Hazardous waste is also a by-product of manufacturing.


You may have hazardous wastes in your basement or garage. How do you get rid of them? Don't pour them down the drain, flush them, or put them in the garbage. See if you can donate or recycle. Many communities have household hazardous waste collection programs. Check to see if there is one in your area.

Environmental Protection Agency

Start Here

- Household Products Database  (National Library of Medicine)


Related Issues

- ToxFAQs (Agency for Toxic Substances and Disease Registry)
- TOXNET: Toxicology Data Network  (National Library of Medicine) - Databases on toxicology, hazardous chemicals, and related areas

Specifics

- Best Way to Get Rid of Used Needles and Other Sharps (Food and Drug Administration)
- Volatile Organic Compounds (VOCs) (Environmental Protection Agency, Indoor Environments Division)

Water Pollution



Get Hazardous Waste updates by email

MEDICAL ENCYCLOPEDIA

Hazardous materials

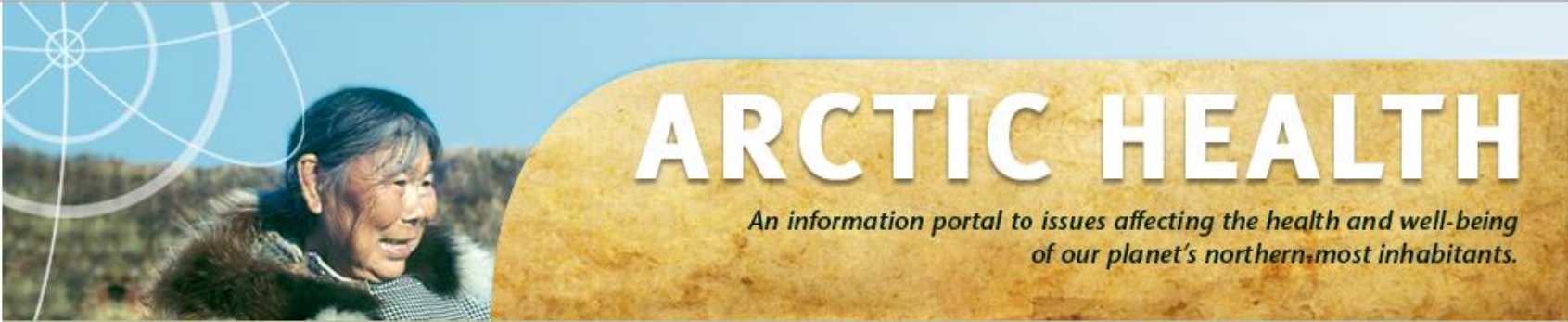
Related Health Topics

Environmental Health

National Institutes of Health

The primary NIH organization for research on *Hazardous Waste* is the National Institute of Environmental Health Sciences

Arctic Health



ARCTIC HEALTH

An information portal to issues affecting the health and well-being of our planet's northernmost inhabitants.

[About Us](#) | [Link Selection](#) | [Acronyms & Abbreviations](#) | [FAQs](#) | [Contact Us](#) [Search](#) Text size: [S](#) [M](#) [L](#) [XL](#)

[Home](#)

[Publications and Research](#) ▶

[Climate Change](#) ▶

[Food, Air, and Water](#) ▶

[Traditional Healing](#) ▶

[Multimedia](#) ▶

[Governments and Organizations](#) ▶

Welcome!

The Arctic Health website is a central source for information on diverse aspects of the Arctic environment and the health of northern peoples. The site gives access to evaluated health information from hundreds of local, state, national, and international agencies, as well as from professional societies and universities. In addition, our own always expanding [Arctic Health Publications Database](#), (currently more than 250,000 records), can help you find Arctic-specific articles, out of print publications and information from special collections held in the [Alaska Medical Library](#).


The Arctic Health website is sponsored by the National Library of Medicine's [Division of Specialized Information Services](#) and maintained by the University of Alaska Anchorage's [Alaska Medical Library](#).

[f](#) [t](#) [g+](#) [11](#)

Last updated: January 16, 2015 First Published: July 12, 2002
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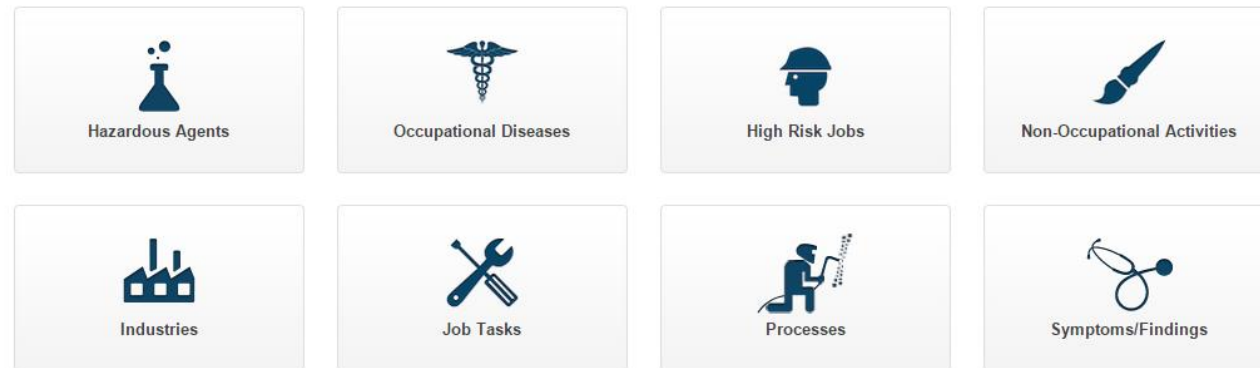
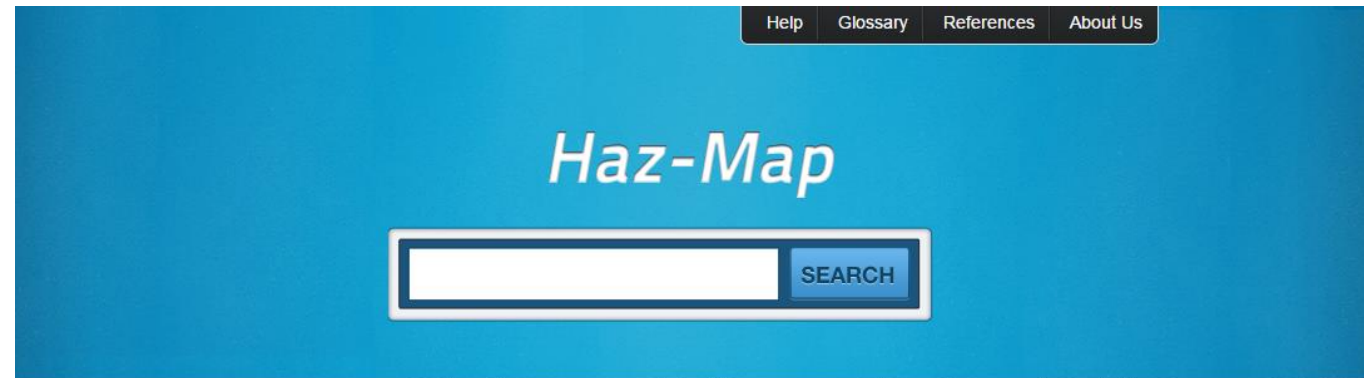
U.S. National Library of Medicine
8600 Rockville Pike, Bethesda, MD 20894
[National Institutes of Health](#) | [Department of Health and Human Services](#) | [www.usa.gov](#)

For more information, to send comments, or for technical support, please contact: ayahw@uaa.alaska.edu

 **Alaska Medical Library**
University of Alaska Anchorage

 **United States National Library of Medicine**
National Institutes of Health

Haz-Map



Haz-Map is an occupational health database designed for health and safety professionals and for consumers seeking information about the adverse effects of workplace exposures to chemical and biological agents.

ToxMystery



Toxie the Cat helps children find the hazards hidden in each room and offers hints when needed.



- **Available in English and Spanish**
- **"For Teachers" section includes 3 lesson plans with student worksheets/activities"**
- **Parent Resources**
- **Suitable for ages 7-11**

Environmental Health Student Portal

The Environmental Health Student Portal provides a safe and useful resource for students and teachers to learn how the environment can impact our health.



Suitable for Grades 6-8

ToxTown



Tox Town provides information on:

- Everyday locations where you might find toxic chemicals and how the environment can impact human health.
- Non-technical descriptions of chemicals
- Available in English and Spanish
- Suitable for ages 6-12+

ToxTown After School Club

Unit 1: Water Quality

Unit 2: Air Quality

Unit 3: Chemicals in Your Home

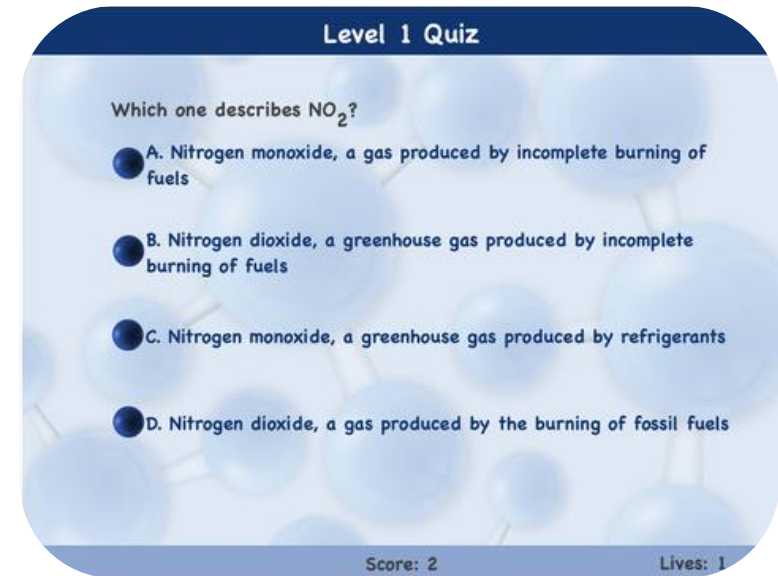
Unit 4: Food Safety

Unit 5: Runoff, Impervious Surfaces, and Smart Development

Unit 6: The Great Debate: Bottled Water vs. Tap Water in Our Schools

TOXinvaders

TOXinvaders game, by the National Library of Medicine (NLM), engages young adolescents in a fast-paced attack on toxic chemicals in the environment. The game supports middle school science concepts about environment and health.



Run4Green



Bohr Thru



Household Products Database (HPD)

U.S. Department of Health & Human Services www.hhs.gov

Household Products Database
Health & Safety Information on Household Products

National Institutes of Health
National Library of Medicine
Specialized Information Services **NLM**

[Home](#) [Products](#) [Manufacturers](#) [Ingredients](#) [Health Effects](#)

Quick Search
 [Go](#)
Product, Manufacturer etc...

[Advanced Search](#)

Browse by Category
[Auto Products](#)
[Inside the Home](#)
[Pesticides](#)
[Landscape/Yard](#)
[Personal Care](#)
[Home Maintenance](#)
[Arts & Crafts](#)
[Pet Care](#)
[Home Office](#)
[Commercial / Institutional](#)

Browse A-Z
[Product Names](#)
[Types of Products](#)
[Manufacturers](#)
[Ingredients](#)

Support
[About the Database](#)
[FAQ](#)

What's under your kitchen sink, in your garage, in your bathroom, and on the shelves in your laundry room?
Learn more about what's in these products, about potential health effects, and about safety and handling.


 Auto Products Brake Fluid, De-icer, Lubricant, Sealant, and more...	 Inside the Home Air Freshener, Bleach, Cleaners, Toilet Bowl Cleaner, and more...	 Pesticides Animal Repellent, Fungicide, Herbicide, Insecticide, and more...
 Landscape/Yard Fertilizer, Lawn Care, Swimming Pool Products, and more...	 Personal Care Antiperspirant, Hair Spray, Makeup, Shampoo, Soap and more...	 Home Maintenance Caulk, Grout, Insulation, Paint, Putty, Stain, and more...
 Arts & Crafts Adhesive, Glaze, Glue, Primer, Varnish, and more...	 Pet Care Flea & Tick Control, Litter, Stain/Odor Remover, and more...	 Home Office Ink, Toner, Correction Fluid, Electronics Cleaners, Pens and more...

For advice if someone is poisoned, call your local Poison Center at 1-800-222-1222.

Answers questions such as:

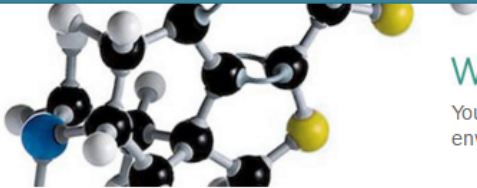
- What's under your kitchen sink, in your garage, in your bathroom, and on the shelves in your laundry room?
- Do these household products pose a potential health risk to you and your family?
- What are the chemical ingredients and their percentages in specific brands?
- Which products contain specific chemical ingredients?
- Suitable for ages 6-12+

TOXNET

 U.S. National Library of Medicine

TOXNET TOXICOLOGY DATA NETWORK

Mobile | Help | FAQs | TOXNET Fact Sheet | Training Manual & Schedule



Welcome to TOXNET

Your resource for searching databases on toxicology, hazardous chemicals, environmental health, and toxic releases

Share

SEARCH TOXNET Search all or select specific databases

BROWSE

ADVANCED SEARCH

e.g. benzene, endocrine disruptor

ALL DATABASES

Search

TOXNET Databases

MOST VISITED BY TOXNET USERS

[HSDB](#)
Hazardous Substances Data Bank. Peer-reviewed toxicology data for over 5,000 hazardous chemicals

[TOXLINE](#)
4 million references to literature on biochemical, pharmacological, physiological, and toxicological effects of drugs and other chemicals

[ChemIDplus](#)
Dictionary of over 400,000 chemicals (names, synonyms, and structures)

BREASTFEEDING & DRUGS

[LactMed](#)
Drugs and Lactation Database. Drugs and other chemicals to which breastfeeding mothers may be exposed

DEVELOPMENTAL TOXICOLOGY LITERATURE

[DART](#)
Developmental and Reproductive Toxicology Database. References to developmental and reproductive toxicology literature

CHEMICAL RELEASES & MAPPING

[TOXMAP](#)
TOXMAP: Environmental Health Maps provides searchable, interactive maps of EPA TRI and Superfund data, plus US Census and NCI health data

[TRI](#)
Toxics Release Inventory. Annual environmental releases of over 600 toxic chemicals by U.S. facilities

GENOMICS

[CTD](#)
Comparative Toxicogenomics Database. Access to scientific data describing relationships between chemicals, genes and human diseases

HOUSEHOLD PRODUCT SAFETY

[Household Products Database](#)
Potential health effects of chemicals in more than 10,000 common household

Environmental Health & Toxicology

Resources on environmental health and toxicology

Visit Site

Did you know

There is a guide to choosing a database

Which Resource Should I Use can help you pick the right resource for your search.

More FAQs

Genetics

Genetics Home Reference

NIH U.S. NATIONAL LIBRARY OF MEDICINE

Genetics Home Reference
Your Guide to Understanding Genetic Conditions

Search

Health Conditions Genes Chromosomes & mtDNA Resources Help Me Understand Genetics

Genetics Home Reference provides consumer-friendly information about the effects of genetic variation on human health.

Health Conditions
More than 1,100 health conditions, diseases, and syndromes
[Browse A-Z](#)

Genes
More than 1,300 genes and the health effects of genetic

New & Updated

New

- cryptogenic cirrhosis
- fibrochondrogenesis
- DOLK-congenital disorder of glycosylation
- Past 12 Months


Updated

- Moebius syndrome
- Poland syndrome
- spondyloepiphyseal dysplasia congenita

Topics Covered:

- Condition Summaries
- Gene Summaries
- Gene Family Summaries
- Chromosome Summaries
- Handbook
- Glossary
- Resources

GeneEd




Genetics, Education, Discovery

[Print This Page](#)
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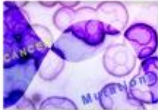
[Home](#) [Topics](#) [Labs & Experiments](#) [Teacher Resources](#) [Careers in Genetics](#) [Highlights](#)

[GO](#)




Cell Biology

The study of the cell, including mitosis and meiosis




Genetic Conditions

Conditions caused by gene variations or mutations




DNA Forensics

The application of genetic testing for legal purposes




DNA, Genes, Chromosomes

The building blocks of inheritance




Evolution

Processes by which organisms are changed over time




Top Issues In Genetics

Select genetic topics of popular interest




Heredity/Inheritance Patterns

The genetic transmission of traits




Biostatistics

The use of mathematics to investigate life science related problems




Epigenetics/Inheritance and the Environment

The genome's dynamic response to the environment



Biotechnology

Biological techniques used to enhance products



National Human Genome Research Institute



National Human Genome Research Institute
Advancing human health

Research Funding | Research at NHGRI

Education



Feature

NHGRI & ASHG seek education fellowship applicants



NHGRI and the American Society of Human Genetics (ASHG) are accepting applications for the 2016 Genetic Education Fellowship. The application period is now open until April 25, 2016. See: [The Genetic Education Fellowship](#)

LabGenius: The next step toward digital laboratory



The HHS Ignite Accelerator program, inspired by Silicon Valley start-up method, nurtures innovations that might improve government operations. Now this seed funding mentorship program could help create a "LabGenius" and, according to NIH Director Francis Collins, "has the potential to streamline operations which could have a big impact." [Read more](#)

National DNA DAY APRIL 25

Celebrating Genomics Through Awareness

Connect with DNA Day

Twitter Facebook Email

Find Events | Plan An Event | Celebrate With NHGRI | Get Activity Ideas | Learn The History | Visit Newsroom



National DNA Day is a unique day when students, teachers and the public can learn more about genetics and genomics! The day commemorates the completion of the Human Genome Project in April 2003, and the discovery of DNA's double helix in 1953. [Subscribe to our newsletter!](#)

Find Events In Your Area



The National DNA Day Network has events all over the country. Find an event near you to celebrate DNA Day.

Chat With Geneticists in the "Ask Me Anything" Series



Join NHGRI, pgEd, and ASHG for a week-long National DNA Day "Ask Me Anything" (AMA) Series on reddit [/r/Science](#).

Join @DNADay For a Twitter Chat

#DNADay16

Check out our 2016 DNA Day Lecture

Harry Potter

NLM Traveling Exhibits

History of Medicine

History Home | About Us | Visit Us | Contact Us | Copyright | HMD Site Map

Home > About Us > Exhibition Program > Harry Potter's World: Renaissance Science, Magic, and Medicine

HARRY POTTER'S WORLD

RENAISSANCE SCIENCE, MAGIC, AND MEDICINE

Home Exhibition Education Resources Traveling Information Exhibition Program

"There was a lot more to magic,
as Harry quickly found out,
than waving your wand
and saying a few funny words."
—Harry Potter and the Philosopher's Stone,
J. K. Rowling



Illustration of an owl
Koenrad Geseus,
Historiae Animalium, 1551

EXHIBITION



EDUCATION RESOURCES



TRAVELING INFORMATION



EXPLORE MORE EXHIBITIONS MORE EDUCATIONAL RESOURCES

HARRY POTTER'S WORLD

RENAISSANCE SCIENCE, MAGIC, AND MEDICINE

Home Exhibition Education Resources Traveling Information Exhibition Program

MIDDLE & HIGH SCHOOL HIGHER EDUCATION ONLINE ACTIVITIES BIBLIOGRAPHY

Harry Potter's World presents the following instructional resources for the educators in middle- and high-schools, and in higher education institutions. The resources provide suggested instructional guides and materials that an educator may adapt in whole or in parts as he or she deems most appropriate for the students' interest, level, and academic goals.

Middle & High School Lesson Plans

- *Boggart and Fear in Harry Potter* and *Genetic Traits in Harry Potter* are two lesson plans prepared for middle- and high-school teachers. Each lesson plan contains background information and resources related to *Harry Potter* or academic topics, national standards, learning outcomes, step-by-step procedures, and all classroom materials.
- The lesson plans are developed in collaboration with Sahar Saddiqui and Annabella Kraut—English and Science teachers, respectively—at Charles E. Smith Jewish Day School in Rockville, Maryland.

Higher Education Module

- *"Things Most Strange and Wondrous"*, is a course module designed to introduce undergraduate and graduate students to the various magical and esoteric traditions that shaped past thinkers' conceptions of the study of nature in the Renaissance and early modern periods. Inspired by the National Library of Medicine's exhibition, *Harry Potter's World: Renaissance Science, Magic, and Medicine*, which explores the history of science and medicine through the lens of the *Harry Potter* novels by J. K. Rowling, this module is prepared primarily for higher education instructors with a strong background in Renaissance and early modern intellectual and cultural history (spanning roughly 1450-1700 C.E.). Familiarity with the *Harry Potter* novels is neither assumed nor required, though it would be an advantage.
- This module is developed in collaboration with [Mark A. Waddell, Ph.D.](#), who currently teaches in the Lyman Briggs College of Science at Michigan State University.

Online Activities

- *Desire for Knowledge and Different Perspectives* are guided online activities that navigate parts of *Harry Potter's World* with a specific interpretive plan.

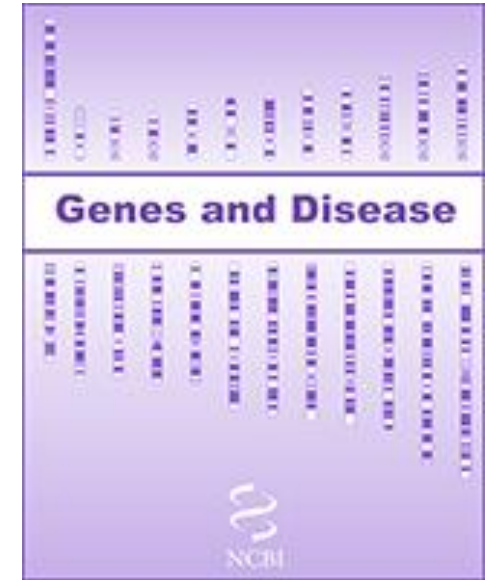
Bibliography

- Elizabeth Bland, curator of the *Harry Potter's World* exhibition, provides a suggested reading list that can serve as a starting point for those who are interested in going beyond the *Harry Potter* novels.

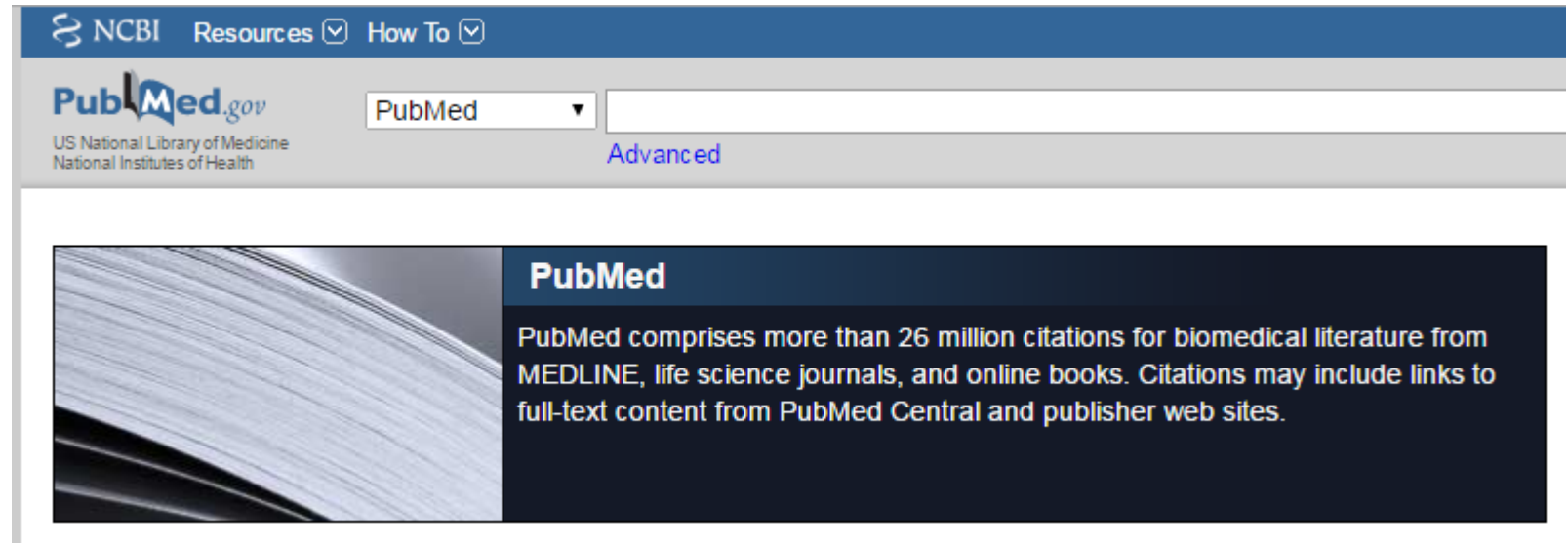
NCBI Bookshelf

Genes and Diseases

- Organized by the parts of the body that genetic disorders affect.
- Over 80 genetic disorder summaries.
- Images and interesting facts.
- PDF downloads of chapters.
- Links to related research literature and pertinent websites.



Links from PubMed



You are here: NCBI > Literature > PubMed

[Write to the Help Desk](#)

GETTING STARTED

- [NCBI Education](#)
- [NCBI Help Manual](#)
- [NCBI Handbook](#)
- [Training & Tutorials](#)
- [Submit Data](#)

RESOURCES

- [Chemicals & Bioassays](#)
- [Data & Software](#)
- [DNA & RNA](#)
- [Domains & Structures](#)
- [Genes & Expression](#)
- [Genetics & Medicine](#)
- [Genomes & Maps](#)
- [Homology](#)
- [Literature](#)
- [Proteins](#)
- [Sequence Analysis](#)
- [Taxonomy](#)
- [Variation](#)

POPULAR

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- [Bookshelf](#)
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- [PubMed Health](#)
- [BLAST](#)
- [Nucleotide](#)
- [Genome](#)
- [SNP](#)
- [Gene](#)
- [Protein](#)
- [PubChem](#)

FEATURED

- [Genetic Testing Registry](#)
- [PubMed Health](#)
- [GenBank](#)
- [Reference Sequences](#)
- [Gene Expression Omnibus](#)
- [Map Viewer](#)
- [Human Genome](#)
- [Mouse Genome](#)
- [Influenza Virus](#)
- [Primer-BLAST](#)
- [Sequence Read Archive](#)

NCBI INFORMATION

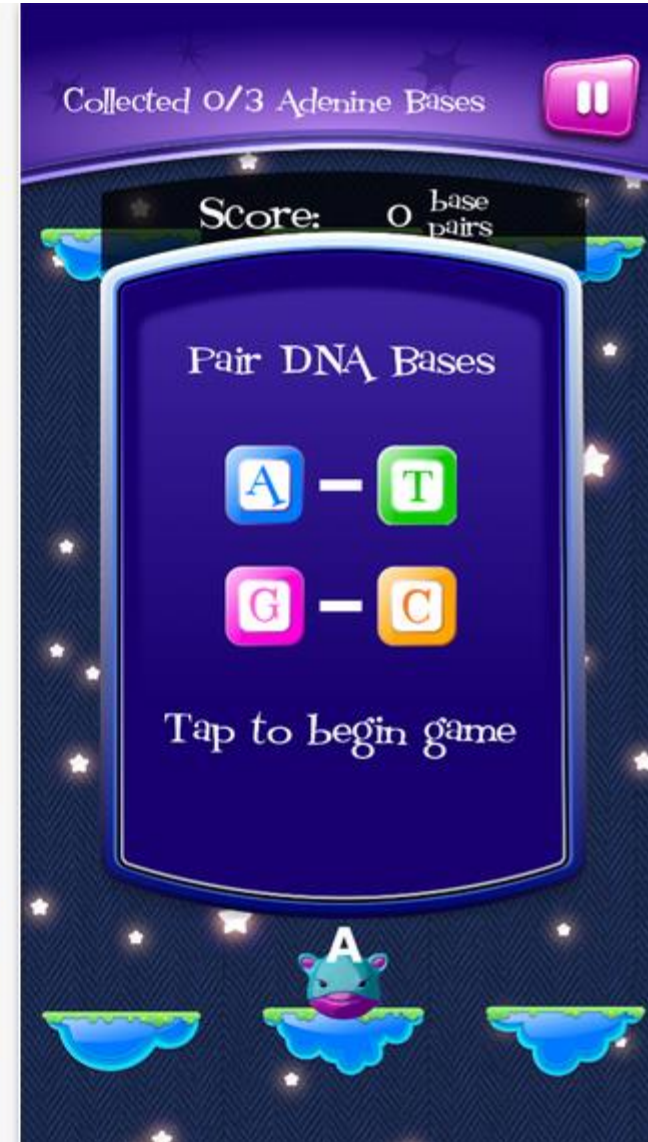
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National Center for Biotechnology Information, U.S. National Library of Medicine
8600 Rockville Pike, Bethesda MD, 20894 USA

[Policies and Guidelines](#) | [Contact](#)



Base Chase



Other Genetic Resources

GENOME UNLOCKING LIFE'S CODE

EXPLORE ABOUT LEARN TRAVELING EXHIBIT MEDIA CONNECTIONS

GENOMIC MEDICINE

Travel the genomic road to personalized healthcare.

LEARN MORE

OPEN THROUGH APRIL 25 AT DISCOVERY WORLD

EXPLORE

The exhibit

ABOUT

The exhibit

LEARN

Multimedia, Activities and More...

FEATURED

"What Do You Think?" Interactive Learning Tool

NEW & NOTEWORTHY

The February Issue of Our Newsletter Is Here!

Award-winning resources. Helpful tips. Timely tools. Ways to get involved. Subscribe now. Read the latest issue.

Variations in Human Skin Color: An Online Exploration Tool

Our interactive allows you to adjust the activity of several genes and watch as skin becomes darker or lighter as individual genes affect skin color.

February 2016 Resource of the Month

Science Buddies. Robust resources for STEM learning in the classroom or at home!

In and Beyond Africa: A New Online Interactive

It's free and chock full of interactive eLearning tools about human migration over time, the first farmers, variation in skin color, and more!

Take the 2016 DNA Day Pinterest Challenge With Your Class!

<http://www.discoveryworld.org>

THE AMERICAN SOCIETY OF HUMAN GENETICS

discover. educate. advocate.

Home | Contact ASHG | Join/Renew your Membership | Search Website

About ASHG Membership Meetings Awards Policy/Advocacy Education/Trainees Press

Education

ASHG » Education » K-12 Education » External Genetics Resources

External Genetics Resources

Below we have provided resources developed by ASHG, as well as highlighted a few exemplary genetics curriculum, websites, and books developed by others. We encourage all educators and GEON members to use these resources with their K-12 students.

CURRICULA WEBSITES BOOKS

There are a significant number of genetics curriculum resources designed by different companies, curriculum development outlets, state curriculum designers and individual teachers. What resources are good? How do you know?


As part of the Geneticist-Educator Network of Alliances (GENA) Project, a Curriculum Content Review Committee was formed to review readily available classroom resources about patterns of inheritance. Click [here](#) to see the summary of the committee's review, or check out the exemplary K-12 lesson plans below!

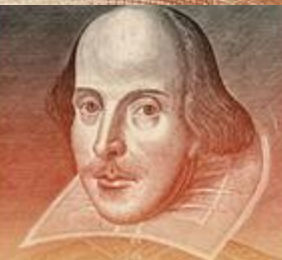
Title	Publisher
A Mendel Seminar	AAAS- Science NetLinks
Blackett Family DNA Activity 2	University of Arizona- The Biology Project
Bioinformatics and the Human Genome Project	Biological Sciences Curriculum Study
Curriculum Supplement Series	National Institutes of Health
Garden Genetics	National Science Teachers Association
Genes, Environment, and Human Behavior	Biological Sciences Curriculum Study
Genomics and Human Identity	Smithsonian National Museum of Natural History & NHGRI
The Genetics of Parenthood	The National Health Museum- Access Excellence

Need a tune to engage all levels of students? ASHG member, Jim Sikela and his daughter Megan want to share "I love DNA" with you. More you can find the [lyrics](#) and the [audio](#). Enjoy!

Interdisciplinary Resources

NLM Traveling Exhibits





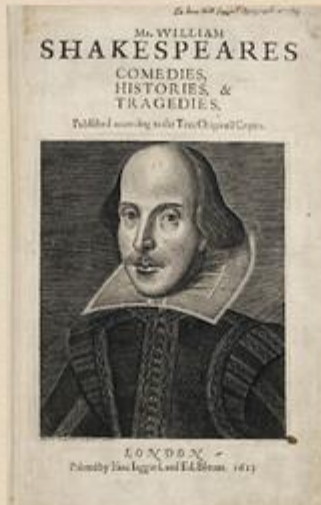
*"And there's the
humor of it"*
Shakespeare and the four humors

Exhibition

- Four Humors
- Taming of the Shrew
- Hamlet
- Merchant of Venice

Education

- Traveling Exhibition
- Credits
- Exhibition Program



Mr. WILLIAM
SHAKESPEARES
COMEDIES,
HISTORIES, &
TRAGEDIES.
Published according to the True Originall Copies.
LONDON,
Printed by Iacobi Iones & Edm. Blount. 1619

*"And there's the
humor of it"*
Shakespeare and the four humors

William Shakespeare (1564–1616) created characters that are among the richest and most humanly recognizable in all of literature. Yet Shakespeare understood human personality in the terms available to his age—that of the now-discarded theory of the four bodily humors—blood, bile, melancholy, and phlegm. These four humors were thought to define peoples' physical and mental health, and determined their personalities, as well.

left: William Shakespeare. Courtesy Folger Shakespeare Library.

The language of the four humors pervades Shakespeare's plays, and their influence is felt above all in a belief that emotional states are physically determined. Carried by the bloodstream, the four humors bred the core passions of anger, grief, hope, and fear—the emotions conveyed so powerfully in Shakespeare's comedies and tragedies.

Today, neuroscientists recognize a connection between Shakespeare's age and our own in the common understanding that the emotions are based in biochemistry and that drugs can be used to alleviate mental suffering.

*If all the elements, the earth, the sea
Air, and fire, so merry be,*

*Why is man's mirth so seldom and so small,
Who is compounded of them all?*

Abraham Cowley, "Love's Riddle," 1638

NLM Traveling Exhibits

NATIVE VOICES
NATIVE PEOPLES' CONCEPTS OF HEALTH AND ILLNESS

EXHIBITION INTERVIEWS TIMELINE RESOURCES VISIT Search...

WATCH OVERVIEW VIDEOS
Listen to the director of the National Library of Medicine introduce *Native Voices*. Watch an overview of the exhibition that demonstrates how Native peoples of the United States today enhance their wellness through both traditional and Western healing practices.

NATIVE VOICES
Watch interviews with Native people telling how the wellness of individuals and communities has been affected by epidemics, government policies, and the inhibition of Native culture. Hear contemporary stories of renaissance, recovery, and self-determination.

VIEW THE EXHIBITION
Health, illness, and cultural life form unique, interconnected relationships in the lives of Native Americans, Alaska Natives, and Native Hawaiians. Learn more about these connections by exploring our exhibition, *Native Voices: Native Peoples' Concepts of Health and Illness*.

EXPLORE THE TIMELINE
Native Peoples' healing traditions have rich histories that extend into the distant past. This timeline highlights key events and themes, from antiquity to the present, to help us understand the importance of some of these ongoing traditions.

THE TRAVELING EXHIBITION + SCHEDULE

@NIH Available on the App Store ANDROID APP ON Google play

STORIES FROM THE JOURNEY A BLOG

OPENING DAY
Highlights from the Opening Day festivities.

TOTEM
Watch the Healing Totem Pole's journey.

NLM Traveling Exhibits

[Home](#)[Exhibition](#)[Education](#)[Traveling Info](#)[Credits](#)[Exhibition Program](#)

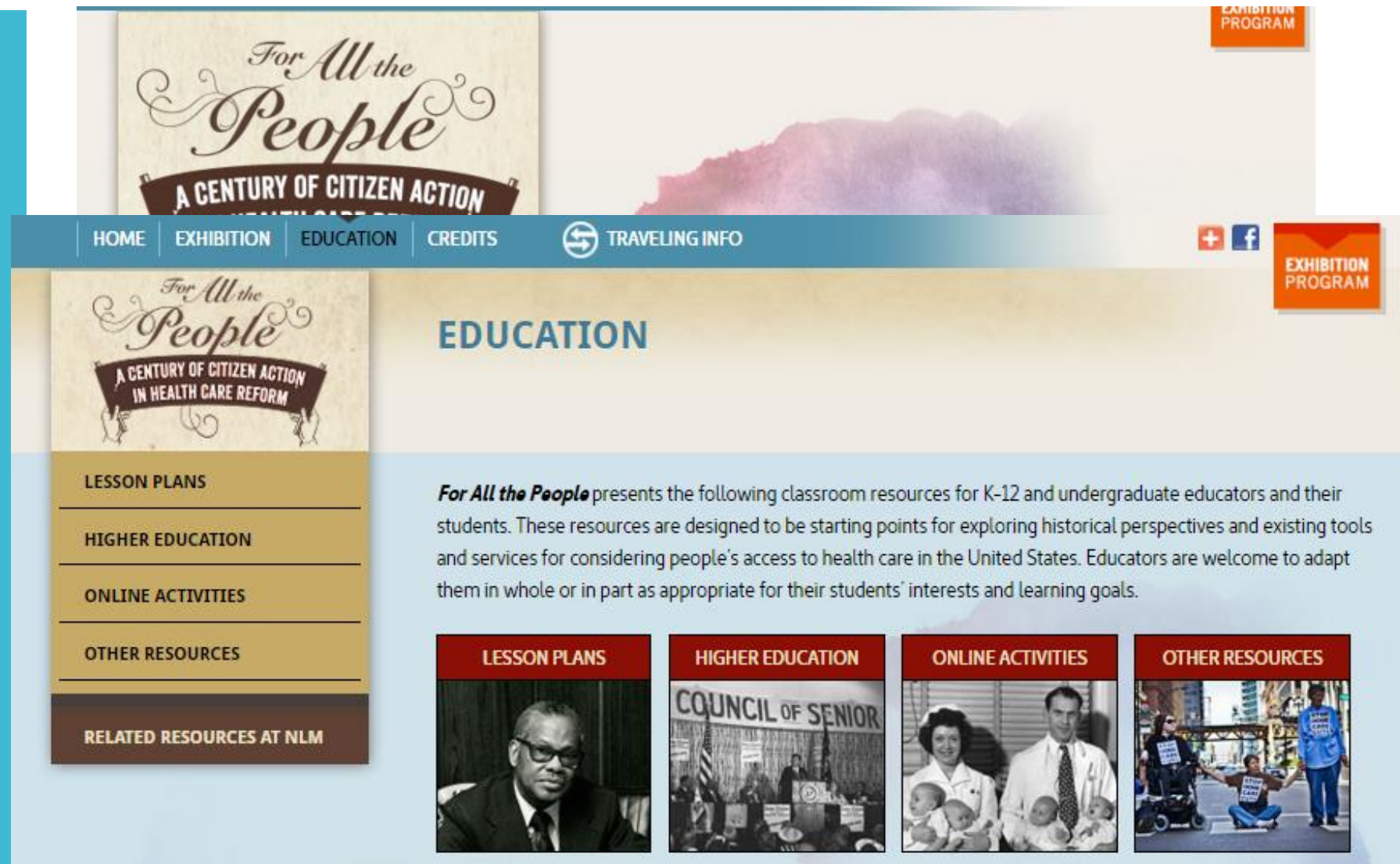
The perspectives of surgeons, physicians, and nurses are richly documented in the history of American Civil War medicine, which highlights the heroism and brutality of battlefield operations and the challenges of caring for the wounded during wartime. Yet the experiences of injured soldiers during the conflict and in the years afterwards are less well-known. *Life and Limb: The Toll of the American Civil War* focuses on disabled veterans and their role as symbols of the fractured nation.

Explore the experiences of Civil War veterans in the [online exhibition](#), use [education resources](#) in middle-school, high-school and undergraduate classes, take a closer look at Civil War-era texts in [Digital Documents](#), or find out if the [traveling exhibition](#) is coming to a library near you.

Pictured on the right: Soldiers at Armory Square Hospital, Washington, D.C., 1860s
Courtesy National Library of Medicine



NLM Traveling Exhibits



The screenshot displays the 'For All the People' website, which is dedicated to the 'A CENTURY OF CITIZEN ACTION IN HEALTH CARE REFORM' traveling exhibit. The website features a blue navigation bar with links to HOME, EXHIBITION, EDUCATION, CREDITS, and TRAVELING INFO. Social media icons for Facebook and Twitter are also present. The main content area is titled 'EDUCATION' and includes a sidebar with links to LESSON PLANS, HIGHER EDUCATION, ONLINE ACTIVITIES, OTHER RESOURCES, and RELATED RESOURCES AT NLM. The main text describes the classroom resources available for K-12 and undergraduate educators. Below this text are four image thumbnails representing different resource categories: LESSON PLANS (a portrait of Martin Luther King Jr.), HIGHER EDUCATION (a historical photo of the Council of Senior Citizens), ONLINE ACTIVITIES (a photo of a family with children), and OTHER RESOURCES (a photo of a protest or rally).

For All the People
A CENTURY OF CITIZEN ACTION
IN HEALTH CARE REFORM

HOME | EXHIBITION | EDUCATION | CREDITS | TRAVELING INFO

EXHIBITION PROGRAM

EDUCATION

LESSON PLANS

HIGHER EDUCATION

ONLINE ACTIVITIES

OTHER RESOURCES

RELATED RESOURCES AT NLM

For All the People presents the following classroom resources for K-12 and undergraduate educators and their students. These resources are designed to be starting points for exploring historical perspectives and existing tools and services for considering people's access to health care in the United States. Educators are welcome to adapt them in whole or in part as appropriate for their students' interests and learning goals.

LESSON PLANS

HIGHER EDUCATION

ONLINE ACTIVITIES

OTHER RESOURCES

NLM Traveling Exhibits

[HOME](#) | [EXHIBITION](#) | [EDUCATION](#) | [DIGITAL GALLERY](#) | [CREDITS](#) | [TRAVELING INFO](#)



FRANKENSTEIN:

PENETRATING *the* SECRETS of NATURE

On a dark and stormy night in 1816, Mary Shelley began writing a story that posed profound questions about individual and societal responsibility for other people.

EXPLORE THE EXHIBITION

*The creature of the
and a convulsive
to him.*
*But how Newman...
emotion at this catastrophe for his Reli*

SEE THE
DIGITAL GALLERY



FIND EDUCATIONAL RESOURCES



Additional Resources/Services


NIH Curriculum Supplement Series



Curriculum Supplement Series

[Home](#) | [Contact](#)



Title	Description	News
<p>Select a title to <i>request</i> print versions and <i>access</i> electronic versions.</p> <p>High School</p> <ul style="list-style-type: none"> • Evolution and Medicine • Exploring Bioethics • Cell Biology and Cancer • Emerging and Re-emerging Infectious Diseases • Human Genetic Variation • The Brain: Understanding Neurobiology Through the Study of Addiction • Sleep, Sleep Disorders and Biological Rhythms • Using Technology to Understand Cellular and Molecular Biology <p>Middle School</p> <ul style="list-style-type: none"> • Rare Diseases and Scientific Inquiry • The Science of Healthy Behavior • Doing Science: The Process of Scientific Inquiry • Looking Good, Feeling Good: From the Inside Out • Chemicals, the Environment and You • How Your Brain Understands What Your Ear Hears • The Brain: Our Sense of Self <p>Elementary School</p> <ul style="list-style-type: none"> • Open Wide and Trek Inside 	<p>The NIH curriculum supplements are teacher's guides to two weeks of lessons on the science behind selected health topics. They combine cutting-edge biomedical discoveries with state-of-the-art instructional practices.</p> <p>HTML and PDF versions of each supplement are online and accessible to all. Print versions are FREE upon request to educators in the U.S.</p> <p>The NIH Curriculum Supplements</p> <ul style="list-style-type: none"> • Are consistent with National Science Education Standards • Promote critical thinking, teamwork, and problem-solving and communication skills • Incorporate real scientific data to engage and challenge students • Are aligned to state education standards <p>The curriculum supplements project was a collaboration with the Institutes and Centers at NIH and BSCS and EDC.</p> <p>Have questions? Contact us.</p>	 <p>NIH/NSTA Webinars</p> <p>NIH and the National Science Teachers Association offer free webinars on selected NIH curriculum supplements. Check them out now at the NSTA Learning Center.</p> <p>Evolution and Medicine - A New Approach for High School Biology</p> <p>Using Rare Diseases to Teach Scientific Inquiry</p> <p>Understanding the Brain - What Drugs Can Tell Us</p> <p>Ethical Considerations, State Vaccination Policies and Challenges in Teaching Bioethics</p> <p>Biomedicine, Genetic Testing, and Bioethics</p>

NLM Traveling Exhibits

EXHIBITION PROGRAM

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SEARCH

[+](#) [f](#)

VIEW CATEGORIES BY: [MOST RECENT](#) [ALPHABETICALLY](#)


[find an exhibition near you](#)

medicine & the arts




FRANKENSTEIN: Penetrating the Secrets of Nature

science & society




PICK YOUR POISON: Intoxicating Pleasures & Medical Prescriptions

patients & practitioners




CONFRONTING VIOLENCE: Improving Women's Lives

the technology of medicine




VISIBLE PROOFS: Forensic Views of the Body

AND THERE'S THE HUMOR OF IT:




Shakespeare and the Four Humors

FROM DNA TO BEER:



Harnessing Nature in Medicine and Industry

PICTURES OF NURSING:



The Zwerdling Postcard Collection

THE ONCE AND FUTURE WEB:



Worlds Woven by Telegraph and Internet

NLM Traveling Exhibits

Peggy Cummings: Engaging Teachers and Students with the History of Medicine

"When school librarians collaborate with classroom teachers to enrich curriculum content, they help create more authentic learning experiences."

—Dr. C. Beth Fitzsimmons, National Commission on Libraries and Information Science Chairperson (2004-2008)




Douglas County High School (DCHS) in Castle Rock, Colorado recently served as host to the National Library of Medicine's (NLM) Every Necessary Care and Attention: George Washington and Medicine exhibit. The only high school west of the Mississippi to receive the 6-week exhibit, Peggy Cummings, the school's Library Media Specialist, had to make a strong case to NLM to bring the exhibit to her site.

Cummings, who has been with DCHS for eleven years, was no stranger to planning exhibits and programming. She worked closely with the school's social studies teaching staff to bring the Gilder Lehrman Looking at Lincoln: Political Cartoons from the Civil War Era exhibit to the library, and she has hosts an annual two-day event, "Remembering Our Veterans" – in conjunction with the Douglas County public library archival staff. Cummings interest in hosting the George Washington exhibit was peaked with a listserv posting announcement, noting that resources like this can serve as a bridge between the classroom and the library. "There were so many facets to George Washington that were not as well-known as they should be. This would provide a way to work with different academic departments."



Peggy Cummings, Library Media Specialist

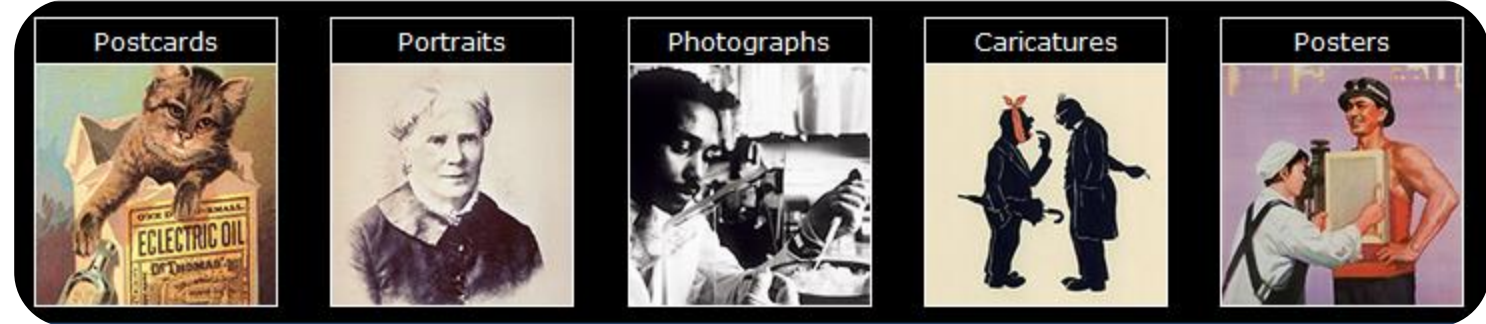
[Read more »](#)

SHARE    ...

Images from the History of Medicine (IHM)

**Images from the History of Medicine (IHM)
provides access to over 70,000 images dated
from the 15th to the 21st century in the
collections of the History of Medicine
Division (HMD) of the U.S National Library of
Medicine (NLM).**

The collection includes:



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Viewer discretion is advised**

NLM Teacher Resources Sheet



Biology

Against the Odds: Making a Difference in Global Health (Grades 9-12+)

How communities work to improve quality of life. Classroom resources included.

apps.nlm.nih.gov/againsttheodds

MedlinePlus® (Grades 6-12+)

Easy to read health information. An excellent source for all ages. Also available in Spanish.

medlineplus.gov

Rewriting the Book of Nature: Charles Darwin and the Rise of Evolutionary Theory (Grades 9-12+)

Explore the scientific discoveries and contributions of Charles Darwin.

nlm.nih.gov/exhibition/darwin/index.html

PubMed®/MEDLINE® (Grades 11-12+)

A citation index for articles from medical and life science journals. View the PubMed tutorial for site navigation.

pubmed.gov

Visible Human Project® (Grades 6-12+)

Complete, anatomically detailed, 3D representations of the normal male and female human bodies.

nlm.nih.gov/research/visible/visible_human.html

Environmental Health Science

Engaging Educational Animations (Grades 6-8)

Educational Animations that convey complex environmental health concepts.

kidsenvirohealth.nlm.nih.gov/generic/3/videos

Environmental Health Student Portal (Grades 6-8)

Connects middle school students to environmental health information.

kidsenvirohealth.nlm.nih.gov

Household Products Database (Grades 6-12+)

Learn about the potential health effects of chemicals in common household products.

hpd.nlm.nih.gov

TOXMAP® (Grades 9-12+)

Uses maps of the United States to visually explore Superfund and Toxic Release Inventory data from the EPA. Includes classroom materials.

toxmap.nlm.nih.gov/toxmap

ToxMystery™ (Grades 1-5)

Interactive site teaching elementary school students about toxic substances in the home. Includes lesson plans and activities.

MedlinePlus Magazine

- A quarterly publication of the Friends of the National Library of Medicine.
- Get a free subscription!
- Organizations can order in bulk
- Spanish available also



Other government resources

Bureau of Labor Statistics-K-12 Games

UNITED STATES DEPARTMENT OF LABOR

A to Z Index | FAQs | About BLS | Contact Us | Subscribe to E-mail Updates | GO

BUREAU OF LABOR STATISTICS

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K-12 | GAMES & QUIZZES | STUDENT RESOURCES | TEACHER'S DESK | HISTORY OF BLS | FAQs | Search K-12 | GO

Check out what's new!

Career videos

Archaeologist - Career Spotlight

Army Dentist - Career Spotlight

Architect - Career Spotlight

Veterinarian - Career Spotlight

GAMES & QUIZZES
Have some fun while learning about BLS information and statistics.

STUDENT RESOURCES
Find careers that relate to your interests and learn fun facts about the economy and jobs.

TEACHER'S DESK
Bring BLS into your classroom with these resources for teachers.

HISTORY OF BLS
Travel through the major milestones of BLS history.

FEATURED OOH OCCUPATION:

National Science Foundation (NSF)



National Science Foundation

Resources for STEM Education



[HOME](#)

[TOPICS](#)

[ABOUT PROTOTYPE](#)

[SEND FEEDBACK](#)

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K-12 Resources for Science, Technology, Engineering and Mathematics Education

Resources and findings generated through educational research and development projects funded in part by the National Science Foundation can help inform states and school systems that are developing strategies for improving K-12 STEM (science, technology, engineering and mathematics) education.

Topics



Teacher Development



Instructional Materials




Assessment




Research Syntheses

This site contains an initial sampling of resources and findings from NSF-funded projects. Their proposals underwent merit review; subsequent annual and final project reports were reviewed and approved. The resulting research-based resources have been pilot- or field-tested in schools or with teachers. The websites identified may offer additional information derived from their development and use with students, teachers, or other stakeholders. These resources and websites represent the work, findings, and conclusions of the Principal Investigators and do not necessarily reflect the views of the NSF.

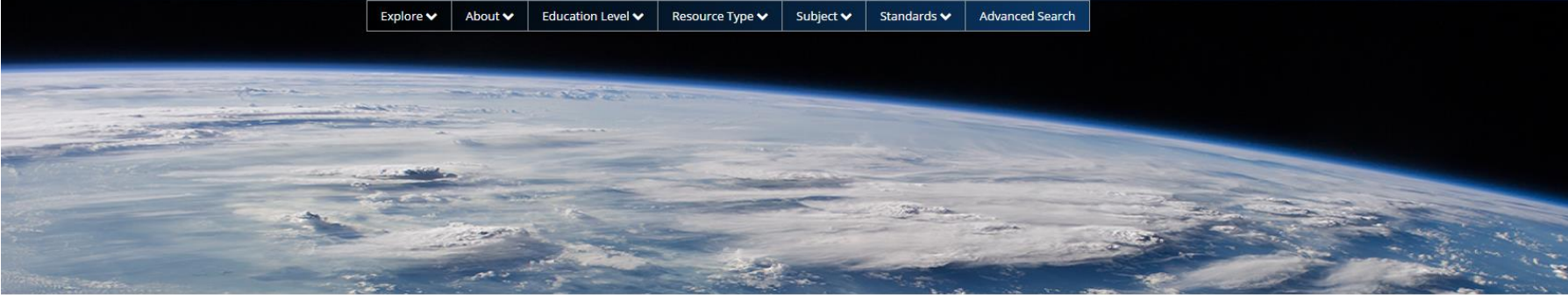
National Science Digital Library




National Science Digital Library
Serving science, technology, engineering, and mathematics education


New Search 

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Search Collections
Learn more about the organizations
that share their resources with NSDL.



Search By Provider
Browse an alphabetical list of all
participating providers.

Find a Resource

Education Level			
Preschool	Middle School	College / Upper Division	Adult Education
Lower Primary	High School	Graduate / Professional	
Upper Primary	Community College / Lower Division	Career / Technical	

AAAS

American Association for
the Advancement of
Science

Science Update

HOME ABOUT

ben

BIOSCIEdNET

DIGITAL LIBRARY PORTAL FOR TEACHING AND LEARNING IN THE BIOLOGICAL SCIENCES

GO IN DEPTH Planets App / Conversations with a Scientist: Michael Brown / Exercise & Nutrition / Sleep & Gene Expression

LESSONS TOOLS COLLECTIONS AFTERSCHOOL NEWS

Find Science Lessons and Tools for K-12

SEARCH

+ Filter Your Search

SCIENCE UPDATE

01/07/2016

Robotic Materials

Many futuristic inventions are inspired by biological systems.

More Science Updates >

TODAY IN SCIENCE

Jan 29

Encourage creative, logical thinking on National Puzzle Day.

See the Calendar >

WINNER!

Honored for outstanding Content Resources.

American Association of School Librarians

ASL BEST 2013

Website for Teaching & Learning

ScienceUnderground

28 JANUARY 2016 / SCIENCE

Math Whizzes of Ancient Babylon
Figured out Forerunner of Calculus
Clay tablets document precocious astronomical calculations by 50 B.C.E.

AAAS

daily ON THE AIR

JANUARY 28, 2016
RESTFUL DIET
Eating better could play a major role in helping people sleep better.

[TRANSCRIPT](#)

EXERCISE & WEIGHT LOSS
Intense exercisers may burn more calories per day than people who don't exercise regularly.

[TRANSCRIPT](#)

JANUARY 27, 2016
HARES & CLIMATE CHANGE
Snowshoe hares can't help turn white in winter, even though climate change is delaying the first snow making them easy prey.

[TRANSCRIPT](#)

JANUARY 26, 2016
MAGNETIC GELS FIX MUSCLES
A muscle-repairing implant may suppress inflammation and grow tissue.

[TRANSCRIPT](#)

JANUARY 25, 2016
CASINO RATS
Studying how rats respond to same cues that encourage people to make unwise bets could lead to treatments for problem gambling.

[TRANSCRIPT](#)

USING BEN

BROWSE BY SUBJECT

BROWSE BY RESOURCE TYPE

BROWSE BY AUDIENCE / LEVEL

BEN SCHOLARS

BEN TECHNOLOGY WIKI

ISOVERADL WIKI

CALENDAR

health science includes and more.

HOME

WELCOME

Welcome to the BEN Library (NSDL) Portal. The BEN Portal provides access to the BEN Collaborators Association for the 20,601 reviewed topics are available student interest, concept updates, national standards and student safety.

Currently, registration is required to the wealth of information in the BEN Portal. Users **Login** to join our educators. Our portal provides information on what information users desiring to

ABOUT THE ED

health science includes and more.

FILES

EXTRAORDINARY SCIENCE
EXTRAORDINARY WOMEN

RESOURCES

The XX Files

New video series from Science explores extraordinary women doing extraordinary science!

RECENT LESSONS

The Kid's Guide to Exploring Nature

In this lesson, students will learn more about ecosystems by engaging in hands-on activities.

6-8 | BIOLOGY, NATURE OF SCIENCE | 1

Designing a Space Station

In this lesson, students will evaluate an existing space settlement design.

9-12 | ASTRONOMY/SPACE SCIENCE | 1

Defining Drought

In this lesson, students will look at drought from a variety of perspectives.

9-12 | EARTH SCIENCE, BIOLOGY | 1

STEM connector

STEMconnector®



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STEMdirectory

Publications

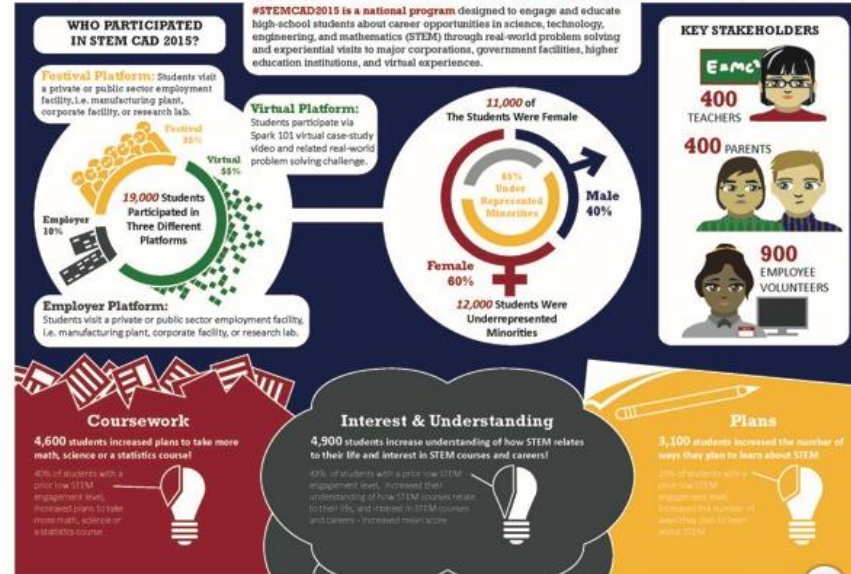
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In The News

Calendar

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OVERVIEW OF STEM CAREER ACCELERATOR 2015 (#STEMCAD2015) RESULTS



Evaluation Note: 13,000 (72%) of student participants were engaged in sites that participated in a pre and post program evaluation that measured student interest in STEM, understanding of STEM, plans to take STEM coursework, plans to learn more about STEM, and satisfaction with the program.

STEMdaily™

EdTech
weekly™

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* Email Address

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Welcome to STEMconnector®

Welcome to the new and improved STEMconnector® website!

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Environmental Protection Agency



United States Environmental Protection Agency

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[Science & Technology](#)

[Laws & Regulations](#)

[About EPA](#)



[Contact Us](#)

[Share](#)

Learning and Teaching about the Environment

K-12 students and educators need access to quality homework resources, lesson plans and project ideas to learn and teach about the environment. [Environmental education \(EE\)](#) is a multi-disciplinary approach to learning about environmental issues that enhances knowledge, builds critical thinking skills and helps students make informed and responsible decisions.

Homework Help, Awards and Activities for K-12 Students



- [Homework resources](#)
- [Student awards and contests](#), including the President's Environmental Youth Award
- [Games, quizzes, and more](#)
- [Videos about the environment](#)

Additional Resources for Educators and Education Professionals



- Find more information about [grants](#), [professional development](#), [EE publications](#), [educator awards](#) and [more](#)

Classroom Resources and Project Ideas



- [Lesson plans, teacher guides and online resources for educators](#)
- [Community service project ideas](#)
- [Science fair project ideas](#)

Healthy Schools, Healthy Kids



- Find EPA programs to help [support healthy, productive learning environments](#)
- Learn about [children's health and the environment](#), and reducing risks at child

News and Deadlines

- Apply by January 31 for the [President's Environmental Youth Award](#).
- The [Visualize Your Watershed Challenge](#) [Exit](#) is now open.

Find Local Resources


To find local resources or more information on inviting EPA staff to visit your school, talk to your [Regional Environmental Education Coordinator](#).


Order Materials

- Our [National Service Center for Environmental Publications](#) offers over 66,000 digital and 1,500 print materials free of charge. Order online or call 1-800-490-9198 for more information.

FDA

U.S. Food and Drug Administration

 U.S. Department of Health & Human Services

 **U.S. Food and Drug Administration**
Protecting and Promoting *Your* Health

A to Z Index | Follow FDA | En Español

SEARCH

Home | Food | Drugs | Medical Devices | Radiation-Emitting Products | Vaccines, Blood & Biologics | Animal & Veterinary | Cosmetics | Tobacco Products

For Consumers

Home | For Consumers | Consumer Information by Audience | For Health Educators and Students

Consumer Information by Audience

- For Health Educators and Students

Resources for You

- Consumer Updates

For Health Educators and Students

From how to read a nutrition label, to tips for students writing a school report, the resources listed on this page can help both educators and students.

Learn About FDA

- Is It Really FDA Approved?
- FDA 101: Product Recalls - From First Alert to Effectiveness Checks [ARCHIVED]
- FDA 101: Regulating Biological Products
- FDA 101: Dietary Supplements [ARCHIVED]
- FDA 101: Advisory Committees
- FDA 101: How to Use the Consumer Complaint System and MedWatch
- FDA 101: Medication Errors
- FDA 101: Clinical Trials and Institutional Review Boards [ARCHIVED]

More Resources for Students

- Educational Materials for Students & Teachers
- Students' Room
- Help for Students Writing a School Report [ARCHIVED]
- Medicines in My Home: Information for Students on the Safe Use of Over-the-Counter Medicines - booklet format (PDF - 659KB)

More Resources for Educators

- Teachers' Room

USDA

US Department
of Agriculture

**USDA**

Natural Resources Conservation Service

United States Department of Agriculture

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Teachers and Students

Volunteers

 NRCS Employees

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Teachers and Students

TEACHERS AND STUDENTS



Welcome to the Teachers and Students page, your destination for all things educational! We have exclusive tools resources and you won't find anywhere else. Take a tour with S.K. Worm, learn about conservation and agriculture or even watch fun videos! New content is added regularly, so keep checking back!

LEARN

Learn tons of exciting agricultural facts from your pal S.K. Worm!

TEACH

Use our education resources to help make any classroom session great!

WATCH

Take a peek inside our multimedia library and watch some cool videos!

NASA

National Aeronautics and
Space Administration

The image is a screenshot of the NASA Education website, showing two main sections: 'For Educators' and 'For Students'. The top navigation bar includes links for Topics, Missions, Galleries, NASA TV, Follow NASA, Downloads, About, and NASA Audiences, along with a search bar. The 'For Educators' section features a large header with a pencil graphic and icons for science, technology, and math, with the equation $E=mc^2$. Below this is a sidebar with social media links (Facebook, Twitter, YouTube) and a list of resources including 'About NASA Education', 'For Educators', 'For Students', 'NASA Kids' Club', 'Search Educational Resources', and 'Latest NASA Education News Releases'. The main content area for educators includes a 'Follow' section with social media links, a list of resources, and a 'Related Topics' section. The 'For Students' section has a similar layout but includes a large 'SPINOFF' banner for 'Spinoff 2016'. Below this are three featured articles: 'Current Opportunities for Students' (with a photo of students in a lab), 'Join STEM on Station for #MISSIONimaginaTion' (with a space-themed background), and 'Connect With NASA' (with a globe graphic). The right sidebar for students includes 'NASA Kids' Club' and 'Student Programs and Projects' with a list of education opportunities.

For Educators

Follow

f t y

About NASA Education

For Educators

For Students

NASA Kids' Club

Search Educational Resources

Latest NASA Education News Releases

For Educators:

Grades K-4

Grades 5-8

Grades 9-12

Higher Education

Informal Education

For Students

Follow

f t y

About NASA Education

For Educators

For Students

NASA Kids' Club

Search Educational Resources

Latest NASA Education News Releases

For Students:

Grades K-4

Grades 5-8

Grades 9-12

Higher Education

Current Opportunities

Related Topics

SPINOFF

Spinoff 2016

MISSION IMAGINATION
inspire. explore. engage.

Join STEM on Station for #MISSIONimaginaTion

Connect With NASA

Download free NASA apps for your smartphone or tablet. Use the links below to find more ways to connect with NASA.

NASA Kids' Club

Student Programs and Projects

A-Z list of education opportunities that NASA offers throughout the year


Exploring Careers @ NASA
The modules on this page lead to steps you can take now that may help land the job you want at NASA.

NASA's One Stop Shopping Initiative Website
Apply for NASA internship, fellowship and scholarship opportunities through a single application.

Pathways Programs at NASA
These programs provide opportunities for students and recent graduates to

The Smithsonian

STUDENTS


Smithsonian Education


[Educators](#) | [Families](#) | [Students](#)

[For Students](#) | [At the Smithsonian](#) | [Explore by Topic](#) | [IdeaLabs](#) | [Secrets of the Smithsonian](#) | [Events for Kids](#)

EXPLORE · DISCOVER · LEARN

Students

A Place for Kids to Explore, Discover, & Learn







WHO'S WHO

at the national ZOO



KIDS PRINTABLE ACTIVITY SHEET

download >>

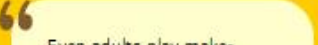
Explore By Topic

 Everything Art
  Science & Nature
  History & Culture
  People & Places

IdeaLabs & More

Know It All



EDUCATORS


Smithsonian Education

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[For Educators](#) | [Field Trips](#) | [Professional Development](#) | [Lesson Plans](#) | [Resource Library](#) | [Online Events](#)

PREPARE · PLAN · TEACH

Educators

Prepare, Plan, Teach



WHAT'S YOUR PROBLEM?

A LOOK AT THE ENVIRONMENT IN YOUR OWN BACKYARD

Walking on the Moon

Journey back in time. Race and walk with the Moon.

Lesson Plans

 Art & Design
  Science & Technology
  History & Culture
  Language Arts

Find Resources

Use this search to access more than 2,000 resources. Enter a word or phrase **in quotes** for best results.

Enter Search Term(s)

Select Grade

All Grades ▾

Select [Subject](#)

All Subjects ▾

Search >>



KIDS ACTIVITY SHEETS

download now >>

Subscribe to the free Smithsonian Education

e-newsletter

learn more >>

BOTANY & ART

and their roles in conservation



What's New

Smithsonian Learning Lab

Get a sneak peek at the next generation of Smithsonian Education

Black History Month 2016

February 1 - 29, view the calendar for upcoming events. >>

The Great Inka Road: Engineering an Empire

See the online version of a new exhibition. >>

Return of "Haliphat"

Watch a video on the restoration of a Roman bust. >>

Smithsonian Center for Learning and Digital Access

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TED ED

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All

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Business & Economics

Design, Engineering & Technology

Health

Literature & Language

Mathematics

Philosophy & Religion

Psychology

Science & Technology

Earth and Space Science

Life Sciences

Physical Science

Environmental Science

Nature of Science

Social Studies

Teaching & Education

Thinking & Learning

157,758 Views

274,478 Views

198,883 Views

243,111 Views

229,679 Views

290,800 Views

227,046 Views

1,278,669 Views

Support Your Institution

- Help your students/parents/colleagues be informed health and science information searchers
- Provide health/science resources for parents, kids, youth
- Connect with the community through collaboration and information
- Look to NLM for great resources!





Join
NN/LM PNR

News & Announcements

- » [Dragonfly](#) (PNR blog)
- » [Bringing Health Information to the Community](#) (BHIC blog)
- » [PNR Rendezvous](#) Join our free monthly webcast series on September 16.
- » [PNR Partners](#) Join our webinar series showcasing the work of our funding recipients September 10.
- » [PNR Calendar](#)

National Network of Libraries of Medicine (NN/LM) Pacific Northwest Region

MEMBERSHIP- FREE

Supporting collaboration among regional libraries, information centers, and community-based organizations in the states of [Alaska](#), [Idaho](#), [Montana](#), [Oregon](#), and [Washington](#).

The mission of the NN/LM is to enhance access to biomedical and health information for researchers, health professionals and the public. Located at the University of Washington, the [Regional Medical Library for the NN/LM Pacific Northwest Region](#) offers education

[Home](#)

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- [Provide Outreach](#)
- [What NN/LM PNR Can Do For You](#)
- [What You Can Do For Others](#)

Provide Outreach

The NN/LM PNR equips and encourages Network members to extend their services and expertise to groups, agencies, and institutions beyond their traditional reach. By developing and expanding outreach efforts, the Network works to accomplish its primary goals-to improve the public's access to information to enable them to make informed decisions about their health, and to provide all health professionals with equal access to biomedical information.

What NN/LM PNR Can Do For You

- Provide consultation and support for you to [partner and collaborate](#) with agencies in your community to provide health information services. Assist with [planning and evaluating](#) outreach.
- [Provide training and professional development opportunities](#) so you can update your skills or learn new techniques in providing health information. We use the train-the-trainer model to equip you to train your staff or clients regarding health information issues. Training sessions cover a range of topics - from utilizing National Library of Medicine resources, evaluating health information for quality, to using evaluation methods to measure your impact within your organization.
 - [Training Resources you can use](#): including lesson plans, toolkits, brochures.
 - Trainers from the [National Training Center and Clearinghouse](#) come to the Pacific Northwest on a regular basis to offer in-depth training. The schedule of these classes along with classes to request from PNR staff and many of our class materials is available [here](#).
 - Here is a [calendar of events](#) listing where regional NN/LM staff will be offering training sessions or staffing exhibits throughout the region.
- [Provide funding](#) for health information outreach projects in your community. To find out about funding opportunities visit this page, which

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[Home](#)

Funding Opportunities and Resources

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- [PNR Awards 2011 - 2016](#)
- [PNR Projects Funded 2006 - 2011](#)
- [PNR Projects Funded 2011 - 2016](#)
- [Grants and Support from the National Library of Medicine](#)

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PNR Awards 2011 - 2016

Each year, the PNR funds subcontracts and awards to support network members and encourage outreach activities aligned with the [NN/LM mission](#).

Available Awards	Purpose	Funding	Submit Intent to Apply By	Application Deadlines
Express Outreach	To improve use of quality online health information resources by priority populations, facilitate improved health literacy and to promote awareness and use of the products and services of the NLM and the NN/LM.	Up to \$15,000	N/A	Currently Closed
Medical Library Pilot Project	To recognize and support emerging roles of the information professional through pilot or demonstration projects that explore or demonstrate innovative roles within their institution.	Up to \$15,000	N/A	Currently Closed
Regional Symposia	To support Network members in planning and hosting regional symposia about issues and priorities of the NN/LM PNR Program.	Up to \$10,000	N/A	Currently Closed
Technology	To enhance the capacity of a library or community organization to offer electronic health information services by supporting the purchase,	Up to \$10,000	N/A	Currently Closed

Thank You!

Questions?